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Supplement 4

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(July 1978 through March 1992)

J. R. Fuhr and A. Lesage

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²Some elements at Boulder, CO 80303.

NIST Special Publication 366

Supplement 4

Bibliography on Atomic Line Shapes and Shifts

(July 1978 through March 1992)

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January 1993



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CONTENTS

TITLE AND ABSTRACT	vii
A. INTRODUCTION	viii
B. ACKNOWLEDGMENTS	viii
C. REFERENCES	ix
D. TABLE OF CODE LETTERS AND ABBREVIATIONS	ix
E. BIBLIOGRAPHICAL MATERIAL	1
1. LITERATURE REFERENCES OF GENERAL INTEREST	1
1.0. GENERAL ARTICLES ON LINE SHAPES AND SHIFTS	1
1.1. PRESSURE BROADENING	1
1.1.1. Stark broadening and shifts	1
1.1.1.1. Hydrogen and hydrogen-like (overlapping) lines	2
1.1.1.2. Isolated lines of neutral spectra	2
1.1.1.3. Isolated lines of ionic spectra	2
1.1.1.4. Topics of particular interest:	
[Line wings; Effects of collective electric	
fields; Asymmetries; Microfield distributions;	
Magnetic fields; Turbulent plasmas; Ion	
dynamic effects; Plasma polarization shifts;	
Stark effect on states above the ionization	
threshold, autoionization effects; Small field	
limit, fine structure; Relativistic effects;	
Dielectronic satellites; Rydberg atoms] ..	3
1.1.2. van der Waals broadening	6
1.1.2.1. Satellite bands	7
1.1.2.2. Polarization effects	7
1.1.2.3. Fine structure; hyperfine structure	8
1.1.3. Resonance broadening	8
1.2. BASIC ARTICLES ON DOPPLER AND NATURAL LINE	
SHAPES	8

1.2.1.	Doppler broadening and Doppler-free spectroscopy	8
1.2.2.	Natural line broadening	9
1.2.3.	Radiation induced broadening	9
1.3.	BASIC PAPERS ON INSTRUMENTAL BROADENING, DECONVOLUTION, SUPERPOSITION OF TWO OR MORE SIMULTANEOUSLY ACTING BROADENING MECHANISMS .	9
1.3.1.	Determination of instrumental line profiles; techniques for determining line shapes	9
1.3.2.	Deconvolution	10
1.3.3.	Superposition of broadening mechanisms	10
1.3.4.	Multiphoton spectroscopy and saturation methods	11
1.4.	IMPORTANT LINE BROADENING APPLICATIONS	11
1.4.1.	Laser & maser applications	11
1.4.2.	Astrophysical applications	12
1.4.3.	Plasma diagnostics	12
1.4.4.	Other applications	14
1.4.5.	Plasma chemistry	14
1.5.	OTHER TOPICS INVOLVING LINE SHAPES AND SHIFTS . . .	14
1.5.1.	The line shape in the presence of self absorption; effects of radiative transfer	14
1.5.2.	Broadening of scattered radiation; redistribution of radiation .	14
1.5.3.	Some important papers on molecular line broadening	15
1.5.4.	Miscellaneous topics: [Broadening of x-ray lines; Light shifts, relaxation; Zeeman broadening; New anomalous redshifts; Laser field-induced broadening; Charge-exchange effects; Line- narrowing mechanisms]	15
1.6.	REVIEW ARTICLES	16
1.6.1.	General line broadening reviews	16
1.6.2.	Reviews on pressure broadening	16
1.6.2.1.	Reviews on Stark broadening	16

1.6.2.2.	Reviews on foreign gas broadening	17
1.6.2.3.	Reviews on resonance broadening	17
1.6.3.	Reviews on Doppler broadening and Doppler-free spectroscopy	17
1.6.4.	Studies of regularities	17
1.7.	REFERENCES ON LINE BROADENING TABLES AND BIBLIOGRAPHIES	18
1.7.1.	General line broadening tables	18
1.7.2.	Pressure broadening tables	18
1.7.2.1.	Special Stark broadening tables	18
1.7.2.2.	Special foreign gas broadening tables	18
1.7.3.	Doppler and natural line broadening tables	18
1.7.4.	Tables of Voigt functions	18
1.7.5.	Line broadening bibliographies	18
2. A.	LITERATURE REFERENCES CONTAINING NUMERICAL DATA: [All mechanisms except van der Waals]	19
2. B.	LITERATURE REFERENCES CONTAINING NUMERICAL DATA: [Mechanism: van der Waals]	30
3.	CHRONOLOGICAL LISTING OF ALL REFERENCES WITH FULL TITLES	44
4.	LIST OF AUTHORS	218
5.	ERRATA	288

BIBLIOGRAPHY ON ATOMIC LINE SHAPES AND SHIFTS

(July 1978 through March 1992)

J. R. Fuhr and A. Lesage

This is the fourth supplement to the original NBS Special Publication 366, *Bibliography on Atomic Line Shapes and Shifts (1889 through March 1972)*. It contains 1964 references and covers the literature from July 1978 to March 1992. As in our previous publications, the bibliography consists of five major parts: (1) Part 1 is a section containing papers of general interest, many without numerical data. These papers are catalogued according to the broadening mechanisms (and further, according to special topics under several of the mechanisms) and as to whether the work is a general theory, a general review, a table of profiles or parameters, a comment on existing work, a study of general experimental measurement techniques, or an experimental effort of general importance. Also included are selected papers on important applications of line broadening and on miscellaneous topics related to atomic spectral line shapes and shifts. (2) In Part 2, all papers containing numerical data are ordered according to element, ionization stage, and broadening mechanism. This section is divided into two parts: Part A--All mechanisms except for van der Waals broadening, and Part B--van der Waals broadening. In the case of foreign gas (van der Waals) broadening, the perturbing species are listed. Furthermore, it is indicated whether the data are experimentally or theoretically derived. (3) While in the two preceding parts of the bibliography the references are listed for brevity by identification numbers only, in Part 3 all references are listed completely by journal, authors, and title. In addition, the papers are arranged by year of publication and alphabetically by the first author's name within the year. (4) Part 4 contains a listing of all authors and their papers, as identified by the reference numbers from Part 3. (5) Part 5 provides corrections and/or additions to the third supplement of the original bibliography.

Key words: Atomic; instrumental broadening; line shapes; line shifts; pressure broadening; resonance broadening; Stark broadening; van der Waals broadening.

A. INTRODUCTION

Since 1978, when our last bibliography [1] was published, the Data Center on Atomic Line Shapes and Shifts has continuously monitored the literature and collected relevant papers in the field. This process included scanning approximately 140 journals plus Chemical Abstracts on a weekly basis. This is the fourth supplement to our original bibliography [2], and it contains 1964 papers in the field of atomic spectral line broadening, including all papers that were received by the Data Center between July 1, 1978 and March 31, 1992. These references provide numerical data, reviews, or comments of general interest. Included here are a few older references that were omitted from our earlier publications. As before, we have provided an errata section (Part 5), which consists of corrections and additions to Supplement 3.

B. ACKNOWLEDGMENTS

We would like to express our great appreciation to Mme. J. Jorand and Mr. F. Leysour of the Observatoire de Paris at Meudon, France. Mme. Jorand diligently entered all references into the database, while Mr. Leysour was the principal programmer and "trouble-shooter." Mr. Leysour helped design the database, as well as organize the sorting and printing of the bibliography. Finally, we gratefully acknowledge the help of Mrs. Helen Felrice of NIST in the preparation of the bibliography. This work was supported in part by the Office of Standard Reference Data at NIST and the CNRS in Paris.

C. REFERENCES

- [1] Fuhr, J. R., Miller, B. M., and Martin, G. A., Bibliography on Atomic Line Shapes and Shifts (June 1975 through June 1978), Natl. Bur. Stand. (U.S.), Spec. Publ. 366, Suppl. 3, 83 pages (Dec. 1978).
- [2] Fuhr, J. R., Wiese, W. L., and Roszman, L. J., Bibliography on Atomic Line Shapes and Shifts (1889 through March 1972), Natl. Bur. Stand. (U.S.), Spec. Publ. 366, 165 pages (Sept. 1972).

D. TABLE OF CODE LETTERS AND ABBREVIATIONS

A. Description	B. Language
1. T--theoretical method	1. Fr.--French
2. E--experimental method	2. Ger.--German
3. C--comment	3. Pol.--Polish
	4. Russ.--Russian
	5. Span.--Spanish

E. BIBLIOGRAPHICAL MATERIAL

1. LITERATURE REFERENCES OF GENERAL INTEREST

1.0. GENERAL ARTICLES ON LINE SHAPES AND SHIFTS

Theoretical: 3632

1.1. PRESSURE BROADENING

Comment: 4527

Combined comments-theoretical: 3217, 4936

Combined experimental-theoretical: 4004

Theoretical: 3139, 3227, 3228, 3270, 3342, 3410, 3514, 3554, 3572,
3611, 3747, 3784, 3795, 3882, 3886, 3891, 3903, 3908,
3911, 3928, 4009, 4010, 4072, 4090, 4091, 4198, 4218,
4228, 4229, 4246, 4283, 4285, 4296, 4335, 4368, 4390,
4397, 4444, 4483, 4659, 4753, 4815, 4986, 5012

1.1.1. Stark broadening and shifts

Comments: 3872, 4157

Combined comments-theoretical: 3726, 3745, 3833,
3934, 3997, 4375,
4396, 4804

Combined experimental-theoretical: 4563

Theoretical: 3091, 3133, 3274, 3280, 3299, 3334, 3488, 3505,
3587, 3593, 3594, 3665, 3692, 3741, 3747, 3750,
3752, 3776, 3799, 3834, 3841, 3887, 3897, 3911,
3957, 4020, 4027, 4029, 4049, 4121, 4137, 4155,
4185, 4187, 4204, 4214, 4220, 4237, 4289, 4290,
4372, 4397, 4435, 4436, 4437, 4454, 4464, 4482,

4491, 4546, 4566, 4568, 4586, 4593, 4628, 4704,
4712, 4717, 4759, 4791, 4793, 4802, 4803, 4832,
4841, 4856, 4858, 4872, 4873, 4884, 4894, 4974,
5014

1.1.1.1. Hydrogen and hydrogen-like (overlapping) lines

Comments: 3730, 4379

Combined comment-experimental-theoretical: 4562

Combined comments-theoretical: 3726, 3745,
3805, 4235

Experimental: 3322

Combined experimental-theoretical: 3549

Theoretical: 3125, 3206, 3226, 3298, 3332, 3342,
3458, 3576, 3602, 3662, 3718, 3719,
3723, 3733, 3744, 3747, 3764, 3779,
3888, 3965, 3985, 4013, 4142, 4143,
4238, 4253, 4300, 4303, 4349, 4387,
4447, 4448, 4456, 4491, 4517, 4537,
4598, 4672, 4717, 4719, 4762, 4790,
4836, 4865, 4929, 4935, 4987, 5017

1.1.1.2. Isolated lines of neutral spectra

Combined comments-theoretical: 3162, 3745

Experimental: 3123, 3687

Theoretical: 3160, 3171, 3196, 3747, 4041, 4533,
4710

1.1.1.3. Isolated lines of ionic spectra

Comment: 3084

Combined comments-theoretical: 3817, 4804

Combined experimental-theoretical: 3137

Theoretical: 3181, 3398, 3460, 3477, 3478, 3638,
3640, 3660, 3671, 3844, 4027, 4270,
4546, 4565, 4685, 4696, 4758, 4784,
4863, 4897, 4999, 5013

1.1.1.4. Topics of particular interest

A. Line wings

Experimental: 3152, 4269, 4661

Combined experimental-theoretical: 3222

Theoretical: 3095, 3227, 3317, 3597, 3889, 4179,
4217, 4518, 4533, 4676, 4861

B. Effects of collective electric fields

Comments: 3426, 4118

Combined comments-experimental: 3283, 3366,
3548, 3696,
3729

Combined comments-theoretical: 3306, 3431,
3484, 3485,
3740, 4462

Experimental: 3242, 3467, 3480, 3558,
4018, 4019, 4074, 4075, 4269

Combined experimental-comment: 3365

Combined experimental-theoretical: 4165, 4443

Theoretical: 3334, 3523, 3541, 3641, 3680, 3819,
3897, 3914, 4495, 4592, 4621, 4767,
4768, 4868, 4993

C. Asymmetries

Comment: 3730

Combined comments-theoretical: 3431, 3484

Experimental: 3152, 3248, 3534, 4136,
4189, 4242, 4429, 4596,
4613, 4843, 4910

Combined experimental-theoretical: 4468, 4479,
4699, 4902

Theoretical: 3095, 3317, 3841, 3889, 4092, 4348,
4598, 4714, 4903

D. Microfield distributions

Comment: 3520

Combined comments-theoretical: 3507, 3745,
3934

Combined experimental-theoretical: 3222, 3350

Theoretical: 3390, 3504, 3527, 3562, 3668, 3669,
3697, 3703, 3799, 3842, 3843, 3849,
3850, 3956, 3972, 4028, 4029, 4030,
4031, 4050, 4052, 4092, 4100, 4127,
4153, 4177, 4178, 4179, 4185, 4186,
4187, 4204, 4234, 4237, 4238, 4256,
4270, 4295, 4311, 4312, 4318, 4343,
4369, 4370, 4415, 4422, 4433, 4454,
4460, 4461, 4466, 4475, 4533, 4535,
4558, 4569, 4590, 4606, 4612, 4641,
4702, 4717, 4719, 4721, 4759, 4767,
4768, 4791, 4793, 4803, 4833, 4834,
4851, 4858, 4876, 4898, 4904, 4911,
4927, 4934, 4949, 5026

E. Magnetic fields

Combined comment-experimental: 3283

Experimental: 3205, 3284, 3433, 3645, 5002

Combined experimental-theoretical: 3290

Theoretical: 3252, 3441, 3527, 3541, 3719, 3724,
4065, 4207, 4208, 4243, 4356, 4357,
4924, 4985

F. Turbulent plasmas

Theoretical: 3523

G. Ion dynamic effects

Comments: 3520, 4265, 4379, 4385

Combined comments-experimental: 3316, 3666

Combined comments-theoretical: 3402, 3726,
3740, 4209,
4235, 4386

Experimental: 3169, 3288, 3292, 3468,
3469, 3687, 3950, 3989,
4078, 4079, 4374, 4626

Combined experimental-theoretical: 4115, 4634,
4707, 4810

Theoretical: 3298, 3333, 3336, 3345, 3394, 3587,
3744, 3764, 3766, 3835, 3904, 4100,
4208, 4236, 4237, 4238, 4496, 4510,
4511, 4516, 4517, 4552, 4580, 4641,
4675, 4732, 4733, 4775, 4796, 4859,
4894, 4913

H. Plasma polarization shifts

Comments: 3481, 3730, 4470

Combined comments-theoretical: 4375, 4564

Experimental: 3248, 3720, 3906, 4080,
4136, 4166, 4499, 4910

Combined experimental-theoretical: 3549, 3782,
4479

Theoretical: 3458, 3802, 3810, 3999, 4014, 4015,
4185, 4491, 4536, 4696, 4724, 4867,
4899

I. Stark effect on states above the ionization
threshold, autoionization effects

Experimental: 3558, 5040

J. Small field limit; fine structure

K. Relativistic effects

L. Dielectronic satellites

Experimental: 3618

Theoretical: 3256, 3257, 4581

M. Rydberg atoms

Experimental: 4395

Combined experimental-theoretical: 4409

Theoretical: 4194, 4445, 4456, 4610, 4667, 4859,
5018

1.1.2. van der Waals broadening

Comments: 3173, 3949

Combined comment-experimental: 3739

Combined comment-theoretical: 4055

Experimental: 3560, 5037

Combined experimental-theoretical: 3509, 3627, 3668,
4004, 4082, 4241,
4354, 4426

Theoretical: 3114, 3127, 3203, 3253, 3310, 3362, 3383, 3424,
3518, 3557, 3597, 3610, 3611, 3721, 3785, 3800,
3811, 3902, 3908, 3988, 3995, 4016, 4071, 4094,
4169, 4191, 4194, 4227, 4250, 4263, 4285, 4335,
4368, 4378, 4392, 4413, 4509, 4540, 4541, 4658,
4703, 4752, 4827, 4874, 4953, 4965

1.1.2.1. Satellite bands

Combined comment-experimental: 3465

Combined comment-theoretical: 4056

Experimental: 3199, 3473, 3529, 3584, 3655, 3682,
3717, 3925, 4109

Combined experimental-theoretical: 3168, 3207,
3233, 3266,
3321, 3440,
3583, 3688,
3796, 3862,
4407, 4635,
4842

Theoretical: 3364, 3427, 3453, 3506, 3523, 3572,
3622, 3751, 3785, 4111, 4263, 4430,
4541, 4660, 4852, 4853, 4854, 4862,
4947, 4950, 4951

1.1.2.2. Polarization effects

Combined comments-theoretical: 3162, 4056

Experimental: 3417, 3606, 3939, 4167

Combined experimental-theoretical: 3290, 3503,
4082, 4129,
4543

Theoretical: 3274, 3314, 3628, 3891, 4057, 4071,
4072, 4191, 4296

1.1.2.3. Fine structure; hyperfine structure

Combined comment-experimental-theoretical: 3921

Combined comment-theoretical: 3335

Experimental: 3311, 3413, 3417, 3486, 3710, 3769,
3771, 3773, 3984, 4003, 4008, 4321,
4553, 4646, 4840, 4969

Combined experimental-theoretical: 3355, 3416,
3437, 3772,
3963, 4211,
4502

Theoretical: 3104, 3105, 3106, 3127, 3134, 3135,
3215, 3252, 3382, 3383, 3412, 3434,
3435, 3483, 3516, 3552, 3610, 3677,
3793, 3896, 3899, 3946, 3947, 4088,
4388, 4537, 4647, 4731, 4940

1.1.3. Resonance broadening

Theoretical: 3127, 3611, 4155, 4176

1.2. BASIC ARTICLES ON DOPPLER AND NATURAL LINE SHAPES

1.2.1. Doppler broadening and Doppler-free spectroscopy

Comment: 3268

Combined comment-experimental: 4455

Combined comment-theoretical: 3485

Experimental: 3297, 3330, 3349, 3369, 3384, 3418, 3419,
3489, 3569, 3672, 3700, 3715, 3749, 3769,
3806, 3885, 3898, 3901, 4000, 4135, 4139,
4167, 4323, 4367, 4421, 4542, 4607, 4754

Combined experimental-theoretical: 3261, 3337, 3487,
4096, 4115, 4543,
4643, 4644, 4698,
4744, 4773, 5039

Theoretical: 3090, 3153, 3201, 3249, 3301, 3314, 3376, 3550,
3620, 3675, 3712, 3821, 3861, 4091, 4097, 4428,
4511, 4827, 4963

1.2.2. Natural line broadening

Theoretical: 3158, 3277, 3488, 3944, 4045, 4446, 4579, 4823,
5015

1.2.3. Radiation induced broadening

Combined comment-theoretical: 3109

Experimental: 3367, 3456, 3820, 3980, 4184, 4215

Combined experimental-theoretical: 3920, 3935

Theoretical: 3131, 3462, 3543, 3643, 3652, 3707, 3738, 3775,
3851, 3877, 3894, 3948, 3991, 3992, 4106, 4219,
4228, 4353, 4410, 4771, 4985, 4993

1.3. BASIC PAPERS ON INSTRUMENTAL BROADENING,
DECONVOLUTION, SUPERPOSITION OF TWO OR MORE
SIMULTANEOUSLY ACTING BROADENING MECHANISMS

1.3.1. Determination of instrumental line profiles; techniques for
determining line shapes

Combined comments-theoretical: 3110, 3485

Experimental: 3083, 3097, 3251, 3259, 3329, 3381, 3404,
3474, 3513, 3517, 3684, 3714, 3859, 4210,
4488, 4556, 4671, 4680

Combined experimental-theoretical: 3130, 3261, 3313,
3358, 3359, 3360,

3482, 3509, 3546,

4171, 4309, 4557, 4846

Theoretical: 3082, 3129, 3167, 3218, 3220, 3254, 3258, 3305,
3309, 3319, 3320, 3340, 3411, 3412, 3471, 3523,
3539, 3547, 3556, 3573, 3575, 3600, 3620, 3626,
3706, 3731, 3905, 3912, 3913, 3915, 3951, 3990,
4001, 4026, 4146, 4149, 4160, 4168, 4219, 4247,
4277, 4406, 4494, 4806, 4925

1.3.2. Deconvolution

Combined comment-theoretical: 3110

Experimental: 3087, 4297, 4726

Combined experimental-theoretical: 3244, 3308, 3358,
3500, 4138, 4821, 4846

Theoretical: 3138, 3167, 3220, 3320, 3340, 3344, 3361, 3411,
3470, 3620, 3648, 3756, 3812, 3883, 4034, 4081,
4108, 4147, 4200, 4201, 4314, 4515, 4605, 4608,
4615, 4774, 4808

1.3.3. Superposition of broadening mechanisms

Comments: 3428, 3566, 4931

Combined comments-theoretical: 3577, 3857

Experimental: 3083, 3097, 3243, 3259, 3327, 3341, 3714,
3859, 4297, 4959

Combined experimental-theoretical: 3244, 3429, 3482,
3570, 4175, 4309, 4750

Theoretical: 3082, 3086, 3128, 3129, 3184, 3185, 3201, 3218,
3272, 3285, 3304, 3319, 3340, 3375, 3377, 3407,
3462, 3483, 3497, 3515, 3516, 3533, 3537, 3542,
3547, 3552, 3601, 3605, 3607, 3650, 3675, 3691,

3708, 3711, 3712, 3732, 3774, 3780, 3787, 3837,
3845, 3847, 3848, 3856, 4026, 4043, 4104, 4125,
4150, 4159, 4168, 4212, 4264, 4277, 4293, 4299,
4359, 4408, 4560, 4568, 4599, 4638, 4653, 4677,
4678, 4683, 4727, 4761, 4765, 4806, 4807, 4820,
5004, 5029

1.3.4. Multiphoton spectroscopy and saturation methods

Comment: 3178

Experimental: 3115, 3146, 3187, 3199, 3230, 3349, 3389,
3405, 3417, 3418, 3422, 3489, 3561, 3569,
3579, 3614, 3659, 3749, 3827, 3885, 3898,
3959, 4453, 4575, 4754

Combined experimental-theoretical: 3261, 3337, 3338,
3408, 3487, 3509,
4174, 4643, 4896

Theoretical: 3101, 3127, 3166, 3202, 3238, 3258, 3301, 3314,
3412, 3531, 3881, 3911, 4097, 4188, 4792

1.4. IMPORTANT LINE BROADENING APPLICATIONS

1.4.1. Laser & maser applications

Comments: 3760, 4713

Combined comment-experimental: 4455

Combined comment-experimental-theoretical: 4562

Combined comment-theoretical: 4901

Experimental: 3148, 3149, 3200, 3230, 3232, 3243, 3251,
3269, 3312, 3343, 3367, 3389, 3393, 3405,
3413, 3417, 3436, 3456, 3480, 3489, 3545,
3561, 3579, 3582, 3624, 3690, 3743, 3769,
3820, 3846, 3853, 3980, 4042, 4132, 4323,

4336, 4345, 4346, 4403, 4463, 4572, 4582,
4728, 4843, 4941, 5037

Combined experimental-theoretical: 3165, 3222, 3261,
3313, 3318, 3355,
3360, 3423, 3487,
3503, 3509, 3567,
3592, 3619, 3651,
3664, 4066, 4133,
4484, 4498, 4559,
4563, 4906, 4943

Theoretical: 3090, 3166, 3189, 3307, 3363, 3528, 3543, 3565,
3719, 3775, 3787, 3799, 3800, 3819, 3877, 4020,
4106, 4143, 4188, 4195, 4216, 4227, 4267, 4353,
4476, 4491, 4585, 4600, 4609, 4647, 4658, 4759,
4798, 4827, 4988, 5012

1.4.2. Astrophysical applications

Comment: 4288

Combined comments-theoretical: 3136, 4254, 4383, 4921

Experimental: 4075, 4233, 4382, 4577, 4825

Combined experimental-theoretical: 3117, 3374, 3535,
3536, 4165, 4409, 4747

Theoretical: 3179, 3231, 3395, 3580, 3581, 3724, 3733, 3779,
3878, 3996, 4089, 4102, 4251, 4305, 4356, 4399,
4400, 4401, 4587, 4591, 4593, 4637, 4715, 4811,
4812, 4820, 4836, 4837, 4838, 4847, 4848, 4860,
4862, 4950, 4951

1.4.3. Plasma diagnostics

Comment: 3289

Combined comments-experimental: 3354, 3563, 4226

Combined comment-experimental-theoretical: 4562

Combined comments-theoretical: 3110, 3507

Experimental: 3087, 3122, 3126, 3174, 3176, 3192, 3209,
3236, 3243, 3245, 3248, 3264, 3265, 3267,
3273, 3296, 3322, 3331, 3343, 3387, 3396,
3397, 3400, 3404, 3415, 3430, 3457, 3463,
3466, 3472, 3502, 3519, 3564, 3612, 3667,
3672, 3676, 3687, 3690, 3701, 3743, 3803,
3806, 3853, 3865, 3880, 3952, 4000, 4076,
4078, 4117, 4119, 4132, 4135, 4203, 4252,
4257, 4266, 4281, 4284, 4294, 4344, 4345,
4346, 4393, 4412, 4414, 4421, 4463, 4481,
4530, 4572, 4649, 4695, 4743, 4764, 4776,
4824, 4826, 4829, 4866, 4955, 4957, 5002,
5006, 5019, 5025, 5036

Combined experimental-theoretical: 3100, 3198, 3222,
3235, 3276, 3315,
3318, 3355, 3359,
3501, 3538, 3586,
3592, 3651, 3653,
3664, 3742, 3868,
3923, 4037, 4066,
4138, 4148, 4165,
4172, 4306, 4319,
4330, 4391, 4431,
4559, 4563, 4633,

4773, 4831, 4922,

4943, 5043

Theoretical: 3086, 3125, 3191, 3219, 3225, 3325, 3420, 3462,
3527, 3544, 3565, 3573, 3620, 3680, 3725, 3873,
3931, 3987, 4050, 4060, 4121, 4123, 4153, 4193,
4216, 4461, 4467, 4491, 4576, 4612, 4719, 4790,
4859, 4865, 4875, 4912, 4914, 4954

1.4.4. Other applications

Experimental: 3351

Theoretical: 3091, 3116, 3161, 3274, 3324

1.4.5. Plasma chemistry

Experimental: 4279, 4347, 4425, 4555, 4693, 4716

Theoretical: 4879

1.5. OTHER TOPICS INVOLVING LINE SHAPES AND SHIFTS

1.5.1. The line shape in the presence of self-absorption; effects of radiative transfer

Combined comment-experimental-theoretical: 4562

Combined comment-theoretical: 3968

Experimental: 3200, 3405, 3494, 4038, 4313, 4322, 4420,
4735

Combined experimental-theoretical: 3495, 3619, 3852,
4037, 4138, 4330,
4391, 4431, 4750

Theoretical: 3226, 3231, 3399, 3406, 3675, 3733, 3931, 3981,
3995, 4022, 4023, 4035, 4089, 4248, 4526, 4576,
4639, 4640, 4674, 4798

1.5.2. Broadening of scattered radiation; redistribution of radiation

Combined comment-experimental-theoretical: 3574

Combined comments-theoretical: 3154, 4524

Experimental: 3381, 3606, 3824, 3863, 3939, 4523, 4624,
4663, 4839

Combined experimental-theoretical: 3503, 3629, 4061,
4066, 4129, 4262,
4355, 4502, 4548,
4611, 4750

Theoretical: 3089, 3092, 3103, 3158, 3274, 3357, 3444, 3445,
3446, 3451, 3452, 3530, 3532, 3628, 3704, 3713,
3722, 3784, 3800, 3804, 3808, 3854, 3911, 3927,
4020, 4044, 4057, 4071, 4072, 4089, 4227, 4248,
4258, 4259, 4260, 4267, 4334, 4404, 4419, 4465,
4469, 4519, 4525, 4528, 4529, 4544, 4545, 4549,
4594, 4639, 4640, 4673, 4674, 4749, 4753, 4777,
4778, 4834, 4968, 4995, 5009

1.5.3. Some important papers on molecular line broadening

Experimental: 3421, 3474, 4726

Combined experimental-theoretical: 3960, 4427, 4484

Theoretical: 3143, 3263, 3340, 3539, 3607, 3738, 3809, 3854,
3962, 4141, 4198, 4474, 4984

1.5.4. Miscellaneous topics

A. Broadening of x-ray lines

Experimental: 3265, 4284

Combined experimental-theoretical: 3318, 3423,
3482, 3501,
3619

Theoretical: 3544, 3565, 3718, 4204

B. Light shifts; relaxation

Experimental: 3187, 3262, 3293, 3367,
3384, 3413, 3454, 3545,
3614, 3820, 3892, 3898,
3922, 4058

Combined experimental-theoretical: 3118, 3142,
3165, 3193,
3963, 4164

Theoretical: 3153, 3301, 3302, 3307, 3362, 3383,
3531, 3910, 3942, 4296

C. Zeeman broadening

Combined experimental-theoretical: 4664

D. New anomalous redshifts

Combined comment-theoretical: 3392

E. Laser field-induced broadening

Experimental: 3455

F. Charge-exchange effects

Combined experimental-theoretical: 4067

G. Line-narrowing mechanisms

Theoretical: 4763

1.6. REVIEW ARTICLES

1.6.1. General line broadening reviews

3108, 3255, 3623

Theoretical: 3410, 4674

1.6.2. Reviews on pressure broadening

3508, 4107, 4550, 4742, 4818, 4880, 4888, 4972

Comment: 3760

Theoretical: 3725, 3881

1.6.2.1. Reviews on Stark broadening

3147, 4196, 4197, 4310, 4603, 4782, 4880, 4917

Comment: 3520

Experimental: 4916

Combined experimental-theoretical: 3124, 3234

Theoretical: 3641, 3725, 3744, 4715, 4913, 4974

1.6.2.2. Reviews on foreign gas broadening

3786, 3967, 4880

Experimental: 3582, 4373

Theoretical: 3902, 3908

1.6.2.3. Reviews on resonance broadening

3728, 3967

1.6.3. Reviews on Doppler broadening and Doppler-free spectroscopy

4818

Combined experimental-theoretical: 3112

1.6.4. Studies of regularities

3096, 3099, 3213, 3237, 3379, 3380, 3694, 3698, 3734, 3735,
3737, 3932, 4046, 4785, 4933, 4982, 5010, 5045

Comment: 3893

Combined comment-theoretical: 5011

Experimental: 3098, 3522, 3879, 4033, 4047, 4084, 4086,
4358, 4366, 4500, 4631, 4737, 4738, 4740,
4788, 4816, 4878, 4960, 4979, 4996, 5034

Combined experimental-theoretical: 3326, 3736, 4604,
4736, 4739, 4756

Theoretical: 3196, 3212, 3553, 3818, 3976, 3977, 3978, 4156,
4158, 4289, 4291, 4292, 4372, 4566, 4886, 4887,
4889, 4973, 4975, 4976

1.7. REFERENCES ON LINE BROADENING TABLES AND
BIBLIOGRAPHIES

1.7.1. General line broadening tables

1.7.2. Pressure broadening tables

1.7.2.1. Special Stark broadening tables

4046, 4196, 4197, 4917, 5045

Theoretical: 4041, 4342, 4357, 4533, 4684, 4786,
4837, 4855, 4882, 4883, 5031, 5032

1.7.2.2. Special foreign gas broadening tables

3786

1.7.3. Doppler and natural line broadening tables

1.7.4. Tables of Voigt functions

Theoretical: 4150

1.7.5. Line broadening bibliographies

3172, 4888, 4972, 5028

2. A. LITERATURE REFERENCES CONTAINING NUMERICAL DATA.

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

	Al I		Al XI	T		4366, 4394, 4500, 4649, 4657, 4755, 4787, 4813
Stark E 3291, 3386, 3646		Stark E 4824		3188, 3300, 3544, 4187, 4256, 4552		
		T 3544, 3884, 4873			Ar I Resonance E 3192, 3909, 4616; 4870	E,T. 3137, 4492, 4814
E,T 3792, 4093			Al XII			T 3750, 4437, 4439, 4440
T 3406		Stark C 4670		E,T 4098		
	Al II					Ar III Stark E 3248, 4738
Stark E 3699, 4602		E 4257		T 4230		
						E,T 4604, 4915
E,T 3736, 4371		E,T 3276		Stark E 3387, 3388, 3969, 4032, 4033, 4120, 4192, 4316, 4501, 4596, 4649, 4655, 4656, 4657, 4766, 4770, 4805, 4864, 4923, 4956, 5000		T 3279, 3281, 3460, 3640, 3670, 4565, 4685
T 4437		T 3544, 3799, 4767, 4768, 4863				
	Al III					Ar IV Stark E 4738
Stark T 3212, 3460, 3640, 3750, 4685		Stark-Doppler T 4767				
			Al XIII			E,T 4905, 4915
	Al IV	Stark C 4670		E,T 3591, 3716, 4468, 4756, 4902		T 3279, 3281, 3460, 3640, 3670, 4565, 4685
Stark T 3752		C,T 4235				
	Al IX			T 4230, 4280, 4464, 4832		
Stark T 3544		E 4053, 4203, 4257			Ar II Stark E 3152, 3180, 3248, 3461, 3906, 4202,	Ar XII Stark E,T 4134
	Al X	E,T 3501				
Stark T 3544						

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

		4256, 4300,		
	Ar XIV	4343, 4387,	T	T
Stark		4516, 4517,	4007	4007
E,T		4519, 4536,		
4922		4552, 4558,	Ba I	Be seq.
		4598, 4612,	Resonance	Stark
	Ar XV	4641, 4894,	E	T
Stark		4912, 4934,	3936	4154
E,T		4935		
4922			Stark	Bi II
		Stark-Doppler	E	Stark
	Ar XVI	T	4192	E
Stark		4179		4047, 4084
E,T			Ba II	
4922		B I	Stark	E,T
		Stark	E	3521, 4371
T		E	4192, 4923	
5026		5033		Br I
			T	Stark
	Ar XVII	B II	3175, 3212,	E
Stark		Stark	3638	4340
E,T		E		
3476, 3501,		5033	Zeeman	E,T
3592			E	4689, 4893
		B III	3273	
T		Stark		T
3336, 3660,		E	Be II	3974
3683, 3931,		5033	Stark	
4793, 4900,			E,T	Br II
4912, 4999,		T	3326	Stark
5026		3212, 3640,		E
		4685, 4745	T	4996
	Ar XVIII		3640, 4290,	
Stark		B IV	4437, 4565,	Br III
C,T		Stark	4745, 5031	Stark
3335, 3507,		T		E
4235, 4386		3640, 4270,	Be III	4996
		4685	Stark	
E,T			T	Br IV
3592, 4906		B V	3640, 4685	Stark
		Stark		E
T		E	Be IV	4996
3528, 3718,		3200, 5044	Stark	
3776, 3802,			E	Br XXXIII
3931, 3965,		E,T	3200	Stark
3966, 3985,		3355, 4907		T
4013, 4121,				3703
4153, 4179,				
4238, 4253,				

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

Br XXXV	E,T	Stark-Doppler	Stark
Stark	4908	E	E
T		3343, 3720	4192
3985, 4300	T		
C I	3279, 3385,	Stark-Zeeman	T
Stark	3460, 3640,	T	3974
E	4565, 4685,	3719, 3719	
3409, 3994,	4686, 4745,		Zeeman
4189, 4452,	4793, 4811,	Ca I	E
4583, 5008	4885, 4975,	Resonance	3647
	4977	E	
		4411	Cd II
E,T	C V		Stark
4902	Stark	Stark	E
	E	E	4980
T	4850	3433, 4190	
3385, 4838	E,T	T	Cl I
	4707	4482	Stark
C II			E
Stark	T	Ca II	3085, 4358,
E	3385, 3662	Stark	4688
3210, 3829,		E	E,T
3830, 4687,	C VI	3329, 3945,	4893
5008	Stark	3993, 4923	
T	C,E		Cl II
3385, 4811	4170	E,T	Stark
		3326	E
C III	E		4740
Stark	3200, 3343	T	
E		3638, 3750,	E,T
3982, 4687,	E,T	4290, 4437,	3736, 4915
4709	3222, 3355,	4565, 5032	
	3782, 3938,		Cl III
T	4707, 4708	Ca XVIII	Stark
3279, 3385,		Stark	E
3460, 3640,	T	T	4740
3670, 4636,	3188, 3300,	4872	
4685, 4745,	3528, 3662,		E,T
4811	3718, 3719,	Cd I	4915
	3860, 3912,	Resonance	
C IV	3965, 4007,	E	T
Stark	4348, 4496,	3120, 3241	3279, 3460,
E	4719, 4899,		3640, 3670,
3937, 3982,	4914		3813, 4565,
4255, 4554,			4685
4669, 4687			

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

Cl IV	Stark	Cu IV	F III
Stark	E	Stark	Stark
E	3699, 3871,	T	E
4740	4252, 4344,	4783	4740, 4979
	4381, 4666,		
T	4706, 4751,	D I	T
3640, 4685	4772	Stark	4685
		C,E	
Cl XVII	E,T	3316	F IX
Stark	4371		Stark
T		E	C,E,T
4954	T	3126, 3287,	4562
	3196	3463, 3642,	
Co I		3952, 3989,	E,T
Stark	Stark-Resonance	4626, 4830	3355
E	T		
4083, 4223	4252	E,T	F VII
		3100, 4895	Stark
Cr I	Cu I		E
Stark	Line broadening	Eu I	4095
E	E	Resonance	
3466	5040	E	T
		4512	4619, 4714,
Cr II	Stark		4758
Stark	E	F I	
E	4192, 4298,	Stark	F VIII
4048, 4224	4365, 4622	E	Stark-Doppler
		4481, 4688	E,T
Cs I	E,T		3482
Resonance	4831	E,T	
E		4113, 4893	Fe I
3190, 3356,	T		Stark
3418, 3783,	4472, 4793	T	E
4666, 4772		4434	3294, 4920,
	Stark-Zeeman		4923
E,T	E	F II	
3233, 3583	5025	Stark	Fe II
		E	Stark
T	Cu II	4979	E
3498, 3526	Stark		4923
	E	E,T	
Resonance-Doppler	4298, 4622,	3736	Fe XV
E	4835	T	Stark
3783		3640, 3670	T
			3496

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

				4903, 4929, 4935, 4967, 4985, 4989, 4993, 5017, 5023
Fe XXV	Stark	E, T		
Stark	3394	3770, 4126,		
T		4172, 4543,		
4694, 4897	C	4634, 4698,		
	3289, 4307,	4699, 4705,		
Ga I	4459	4801, 4831,	Stark-Doppler	
Stark		4831, 4895,	T	
E	C, E	5005	3299, 3394,	
3759	3283, 3316,		3904	
	3354, 3366	T		
E, T		3179, 3227,	Stark-Zeeman	
4618	C, T	3229, 3298,	C, E	
	3303, 3402,	3299, 3317,	3283	
Ga II	3726, 3740,	3333, 3334,		
Stark	3934, 4317,	3394, 3555,	T	
E, T	4734	3562, 3576,	3441	
4618		3649, 3680,		
	E	3764, 3766,	He I	
Ga III	3113, 3132,	3779, 3834,	Resonance	
Stark	3177, 3248,	3836, 3841,	E	
T	3287, 3396,	3889, 3904,	3156, 3517,	
3212	3430, 3457,	3965, 3966,	3630, 3631,	
	3463, 3467,	3998, 4060,	4817	
	3468, 3624,	4065, 4097,		
Ge I	3625, 3642,	4100, 4102,	Stark	
Stark	3654, 3667,	4206, 4207,	C	
E	3771, 3900,	4208, 4217,	3426	
4362, 4489,	3964, 3989,	4236, 4238,		
4730	4012, 4132,	4239, 4240,	C, E	
	4136, 4242,	4268, 4304,	3443, 3548,	
T	4266, 4269,	4305, 4350,	3666	
3974	4278, 4301,	4388, 4389,		
	4302, 4308,	4448, 4449,	C, T	
H I	4313, 4337,	4450, 4456,	4209	
Doppler	4429, 4432,	4505, 4510,		
E	4457, 4504,	4511, 4518,	E	
4547, 4966	4508, 4542,	4569, 4580,	3111, 3123,	
	4572, 4613,	4627, 4665,	3148, 3159,	
Resonance	4648, 4661,	4676, 4679,	3163, 3164,	
E	4680, 4690,	4697, 4701,	3169, 3205,	
3710	4797, 4843,	4719, 4724,	3242, 3288,	
	4928, 4941,	4732, 4733,	3292, 3296,	
T	4991, 5001,	4748, 4762,	3370, 3400,	
4862, 4950,	5019	4775, 4791,	3421, 3466,	
4951		4796, 4800,	3469, 3519,	
		4819, 4841,	3687, 3701,	
		4851, 4855,	3950, 3980,	
		4861, 4876,	4074, 4077,	

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

4078, 4079,			
4112, 4117,	C,E	T	I LIII
4249, 4374,	3563, 4068	3622, 4103	Stark
4405, 4522,			T
4799, 4849,	E	Stark	3985, 4300
4938, 5007,	3094, 3197,	E	
5024	3221, 3400,	4038	In I
	3612, 3803,		Stark
E,T	3840, 4080,	E,T	E,T
3350, 3359,	4131, 4166,	3970, 4891	4618
3360, 3368,	4221, 4255,		
3538, 3653,	4414, 4418,	T	In II
4498, 4810,	4499, 4617,	3974, 4103	Stark
4948	4695, 4711,		E,T
	4723, 4822	Zeeman	4618
T		E	
3133, 3278,	E,T	3647	In III
3282, 3334,	3315, 3538,		Stark
3345, 3432,	3549, 4794	Hg II	T
3598, 3603,		Stark	3212
3765, 3791,	T	E,T	
3801, 3816,	3332, 3593,	4891	K I
3878, 3976,	3594, 3778,		Resonance
3977, 3978,	3802, 3835,	I I	E
4156, 4158,	3965, 3999,	Resonance	3749
4287, 4435,	4092, 4451,	E	
4436, 4621,	4521, 4665,	3389	E,T
4675, 4786,	4697, 4724,		4326
4793, 4838,	4732, 4762,	Stark	
4876, 4881	4836, 4837,	E	T
	4867, 4871,	4788	3498, 3526,
Stark-Zeeman	4929, 4942,		3858, 4610
E	5017	E,T	
3284		4893	Stark
	Hg I		C
Zeeman	Resonance	I II	4315
E	C	Stark	
5002	3447	E	C,T
		4919	4338
He II	E		
Doppler	3328, 3571,	I III	E
C,E	4503	Stark	3098, 3433,
3563, 3573		E	4182, 4183
	E,T	4919	
Stark	3440, 4502		T
C			3196, 4438,
3493			4567, 4883

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

		4971, 4973	
K II	T		Mg XII
Stark	4565	Li III	Stark
E, T		Stark	T
3736	Kr IV	E	3188, 3300,
	Stark	4910	4349
K XVIII	C, T	E, T	
Stark	5011	4479	Mn I
T			Stark
4954	Kr XXXIII		T
	Stark	Mg I	4482
Kr I	T	Resonance	
Resonance	4758, 4759,	E	Mn II
E	4873	3936, 4760	Stark
3327, 3679,			T
4575	Kr XXXIV	Stark	3814
	Stark	E	
T	T	3329, 3433,	N I
4792	4758, 4759,	3828, 4192	Stark
	4873, 5014		E
Stark		T	3155, 3250,
E	Kr XXXVI	4436, 4482	3534, 4452,
3245, 3621,	Stark		4596
4578, 4650,	T	Mg II	
4816, 4845	3985, 4300	Stark	T
		E	4838
E, T	Li I	3329, 3828,	
4756	Resonance	3945	N II
	E		Stark
Kr II	3761, 3925,	E, T	C
Stark	4110	3326	3686
E			
3621, 4086,	T	T	C, T
4366, 4500,	3526	3638, 3750,	3636
4650, 4682,		4290, 4437,	
4781, 4816,	Stark	4565	E
4845, 4960	E		3248, 4222,
	3098, 3433,	Mg IV	4339, 4631,
Kr III	4110, 4192,	Stark	4709, 5035
Stark	4572, 4992	T	
E		3640, 4685	E, T
4682, 4781	E, T		3315
	3792	Mg XI	
E, T	T	Line broadening	T
4604	3196, 3637,	E, T	3182, 3315,
	3703, 3758,	3619	3640
	3815, 3943,		
	3973, 4417,		

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

N III	E,T	E,T	E,T
	4907	4211, 4443,	4604
	T	4559, 4943	T
	4811, 4885,	T	3640, 4565,
C,T	4889	3196, 3750,	4685
3636		4291, 4292,	
	N VII	4399, 4400,	Ne IV
E	Stark	4401, 4882,	Stark
4222, 4631	C,E	4887	E
	4170		4738
E,T		Na III	
3315	E	Stark	T
	3200	T	3640, 4685
T		3640, 4685	
3279, 3281,	E,T		Ne VI
3315, 3460,	3355	Ne I	Stark
3640, 3670,		Resonance	T
4565, 4685	T	E	4889
	4007, 4899	3224, 3247,	
N IV		4099, 4998	Ne VII
Stark	Stark-Doppler		Stark
C	E	Stark	T
3686	3720	E	4745
		4377, 4629,	
C,T	Na I	4680, 4741,	Ne VIII
3636	Resonance	4757	Stark
	E		T
E	3373, 3422,	T	4745
3248, 4631,	3551, 3761,	3750	
4857	4024, 4025,		Ne VIIII
	4110	Ne II	Stark
E,T		Stark	E
3315	T	E	4416
	3450, 3526,	3209, 4471,	
T	4610	4500, 4630	T
3315, 3640,			4712, 4793
4685, 4889	Stark	E,T	
	E	3736	Ne X
N V	3098, 3433,		Stark
Stark	3806, 3865,	Ne III	C,T
E	4110, 4192,	Stark	3335
4095, 4554,	4345, 4346,	E	
4631, 4669	4395, 4572,	4738	E
	4866, 5033		3243, 4416

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

E,T 3423, 3501, 4906	T 3279, 3281, 3460, 3479, 3635, 3640, 3670, 4565, 4685	T 3188, 3300, 4899	Pb II Stark E 4047, 4084, 4376
T 3188, 3300, 3332, 3527, 3528, 3565, 3718, 3802, 3810, 4013, 4123, 4153, 4179, 4214, 4256, 4348, 4491, 4516, 4536	O IV Stark E 4737	P I Stark E 4358	E,T 3347, 4371
Stark-Doppler E 3243	O V Stark E 4737	P II Stark E 4047, 4084, 4358	Rb I Line broadening E,T 3495
T 4179	T 3640, 4685, 4889	E,T 3736, 4371	Resonance 3569
O I Stark E 3994, 4583	O VI Stark E 4095, 4669	P III Stark T 3640, 4685	C,T 4055
T 4662, 4838, 4859	T 4745, 4889, 5013	P IV Stark T 3640, 4685	E 3190, 3356, 3403, 3419, 3569, 3749, 3933, 4064, 4324
O II Stark E 4737, 4981	O VIII Stark C,E 4170	Pb I Resonance E 4983	E,T 3583
T 3479, 3639, 3670, 3818	E 3200	Stark E 4376, 4835	T 3526, 3895, 4610
O III Stark E 4737	E,T 3355	E,T 3347	Stark E,T 3326
		T 3974	T 3212, 3974
			S I Stark E 3994, 4358, 4393, 4481

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

S II	Si I	Si XIII	Sr II
Stark E 4282, 4358, 4481, 4890	Stark E,T 3374, 3792	Stark E,T 3318, 3501	Stark E 3329, 4192, 4923
E,T 3736, 4915	Si II Stark E 3151, 3214, 3869, 4054, 4926	T 3334, 3336, 4092	T 3212, 3638, 3640
S III	Si III	Si XIV	Stark-Doppler
Stark E 3211, 4890	T 3975, 4715, 4811	Stark E,T 3501	E 3494
E,T 3371	Si III Stark E 3869, 5034	T 3188, 3300, 3332, 4092	Ti II Stark T 3814
T 3460, 3478, 3640, 3670, 3813, 4565, 4685	T 3279, 3460, 3640, 3975, 4565, 4685, 4811, 4889	Sn I Stark E 3348	Ti IV Stark E,T 4507
S IV	Si IV	T 3974	Ti XX
Stark E 3211	Stark E 5034	Sn II Stark E 3348, 4047, 4084, 4892	Stark T 3703
E,T 3371	T 3279, 3460, 3640, 3750, 4565, 4685, 4811, 4976, 4978, 5013	E,T 4371	Tl I Doppler E 3341
T 3460, 3478, 3640, 3670, 3813, 4565, 4685	Sb II	T 3477, 3670	Resonance E 3121, 3208, 3571
Sb II	Zeeman	Sr I	Tl III
Stark E 4047, 4084	E,T 4664	Stark E 4192	Stark T 3212
E,T 4371		Stark-Doppler E 3494	

All mechanisms except van der Waals.

Element, mechanism, type, reference number as in part 3.

V V	T	Zeeman
Stark	4877	E
E, T		3647
4507		
	Xe III	
	Stark	Zn II
Xe I	E	Stark
Resonance	4682, 4781	E
E		4980
3327, 3959,	E, T	
4051, 4575	4604	
E, T	T	
4896	4565	
T	Xe LIV	
4792	Stark	
	T	
Stark	3985, 4300	
C, T		
5011	Xe XLV	
	Stark	
E	T	
3331, 3753,	4912, 4999	
4017, 4181,		
4332, 4333,		
4650, 4916		
	Yb I	
	Resonance	
	E	
E, T	4930	
4756		
	E, T	
T	5020	
3752		
	Zn I	
	Resonance	
Xe II	E	
Stark	3241	
E		
3879, 4086,	Stark	
4225, 4366,	E	
4500, 4650,	3291	
4722, 4780,		
4816, 4916,	E, T	
4958, 4959	4831	
E, T	T	
4492	3974	

2.B. LITERATURE REFERENCES CONTAINING NUMERICAL DATA.

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

		4098 by Ar
Ag I		4945 by Ar, He
E		
3596 by Ar, Kr, Xe		T
		4946 by He
Al I		4853 by He, Ne
		4122 by He, Ne, Ar
E		4947 by Ne
3216 by He, Ar		
	B I	
Ar I		
		T
C,T		4520 by Ne, Ar, Kr
4779 by He, Ne		
	Ba I	
E		
4486 by Ar	E	3693 by Ar
4725 by Ar		4004 by Ar
3192 by Ar		4271 by Ar, Kr, Xe
3909 by Ar		4918 by He, Ar
4316 by Ar		4244 by He, Ar, Kr
4501 by Ar		3838 by He, Ne, Ar, Kr, Xe
4616 by Ar		3295 by Kr
4962 by Ar, He, Ne		3578 by Kr
4531 by Ar, Ne, He		
4273 by He, Ne, Ar		
4532 by He, Ne, Ar	E,T	
4870 by He, Ne, Ar		4262 by Ar
4652 by He, Ne, Ar		3425 by Ar, Kr, Xe
		4129 by Ar, Xe
		5022 by Ba
E,T		5021 by He, Ne, Ar, Kr, Xe
4124 by Ar		

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

		3656 by He, Ar
		3826 by He, Ar
T		4589 by He, Ar, Xe
4392 by He, Ar, Kr		5041 by He, Ne, Ar
4286 by He, Ne		3916 by He, Ne, Ar, Kr, Xe
		4006 by He, Ne, Ar, Kr, Xe
Ba II		4601 by He, Ne, Ar, Kr, Xe
		4458 by He, Ne, Ar, Kr, Xe
E		4754 by Ne
4373 by Ar, Ne		
4654 by He, Ar		
		E,T
Bi I		3604 by air-C ₂ H ₂
		3627 by Ar
E		3540 by Ar-O ₂ -H ₂
4424 by He, Ar, Xe		3919 by Ar, Kr
4553 by He, N ₂ , Ar, Xe		4514 by Ar, Kr, Xe
		3535 by Ar, Ne, He, H
Br I		4747 by H
		4869 by He, Ar, Xe
E		3825 by He, Ne, Ar, Kr, Xe
3958 by Br ₂ , O ₂ , WF ₆ , UF ₆ , C ₃ F ₇ I ,	3917 by Kr	
CO ₂	4175 by Kr	
	3540 by N ₂ -O ₂ -H ₂	
Ca I		
E	T	
3352 by Ar	3203 by Ar	
3807 by Ar	3605 by Ar, He	
4004 by Ar	4932 by H	
4561 by Ar, Kr	3536 by H	
4411 by Ar, Kr, Xe	5016 by H	
4272 by Ar, Ne	4392 by He, Ar, Kr	
3746 by He	4286 by He, Ne	
3918 by He		
4453 by He		
3144 by He, Ar		

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

Ca II

E
3754 by Ar
3144 by He, Ar
3656 by He, Ar
3826 by He, Ar

E,T
4004 by Ar

T
3605 by Ar, He
4729 by H
4485 by He
4614 by He

Cd I

E
3120 by Cd
3102 by Cd, Ne
3459 by He, Ar
3119 by Xe
3475 by Xe, Kr, Ar, He, Ne

E,T
4426 by Cd, Kr

T
4380 by Ar
4152 by Ar, Kr, Xe

Cd II

E
3789 by Cd

Cl I

E
4840 by He, Ar, Kr, Xe, O₂, CO, CO₂,
H₂, N₂, D₂, Cl₂, I, Cl

Cr I

E
4021 by C₂H₂-air
3378 by He, Ar, N₂, H₂

Cs I

C,E
3739 by Cs
3465 by He

C,T
3107 by He, Ne, Ar

E
3199 by Ar
3717 by Ar
3827 by Ar
3655 by Ar, He, Xe
4373 by Ar, Ne
4011 by Cs
3644 by H₂

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

4320 by He	3751 by Ar, Kr, Xe
4232 by He, Ne, Ar, Kr	5042 by Cs
4162 by He, Ne, Ar, Kr	4964 by Cs
4062 by He, Ne, Ar, Kr, Xe	3134 by He
4161 by He, Ne, Ar, Kr, Xe	4402 by He
4085 by He, Ne, Ar, Kr, Xe	3106 by He, Ar, Kr, Xe
4480 by He, Ne, Ar, Kr, Xe	3135 by He, Ne, Ar, Kr, Xe
4909 by He, Ne, Ar, Kr, Xe	3435 by He, Ne, Ar, Kr, Xe
3613 by He, Ne, N ₂ , CH ₄ , C ₂ H ₆ , C ₃ H ₈ , C ₄ H ₁₀	4194 by He, Ne, Ar, Kr, Xe
4321 by Ne, Ar	3238 by H, He, Ne, Ar, Kr, Xe
3391 by Ne, Ar, Kr, Xe	3453 by Kr
3560 by Ne, Ar, Xe, Kr	3557 by Ne, Ar, Kr, Xe
4574 by Xe	3227 by Xe
3473 by Xe, Ar, He	3427 by Xe
3529 by Xe, Kr	3785 by Xe
3559 by Xe, Kr, Ar, Ne	4130 by Xe
	4263 by Xe
	3940 by Xe
	3093 by Xe, Ar
	3473 by Xe, Kr, Ar, He

E, T

4231 by Ar, Kr
3762 by Ar, Kr, Xe
3583 by Cs
3437 by He, Ne, Ar, Kr, Xe, H ₂ , N ₂
3321 by Xe
3500 by Xe
3688 by Xe
3168 by Xe, C ₅ H ₁₂

T

3203 by Ar
3763 by Ar
4252 by Ar, Cs
3688 by Ar, Kr
3215 by Ar, Kr, Xe
3240 by Ar, Kr, Xe

Cu I

E

3149 by He, Ne
3145 by N ₂ , air

E, T

3604 by air-C ₂ H ₂

Cu II

E

3346 by He

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

Eu I		Ga I	
E		T	
4513 by Ne		3382 by Ar, Kr, Xe	
		H I	
T		E	
4681 by He, Ne, Xe		3417 by He	
4965 by Sr		3769 by He	
F I			
E		E,T	
4101 by He, Ar, N ₂		3286 by H	
		3416 by He	
		4115 by He	
T			
4101 by Ar		T	
Fe I		4430 by Ar	
C,T		3271 by Ar II	
3136 by H		3104 by He	
		3946 by He	
		4940 by He	
		3106 by He, Ar, Kr, Xe	
E		3135 by He, Ne, Ar, Kr, Xe	
3568 by Ar		3435 by He, Ne, Ar, Kr, Xe	
		3238 by H, He, Ne, Ar, Kr, Xe	
E,T		He I	
3536 by H , He		E	
		3448 by He	
T		4087 by He	
4584 by H		4632 by He	
3580 by H, H-He		4937 by He	

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

T

4122 by He

5003 by He

Hg I

C

3447 by Ar, Kr, Xe

E

3727 by Ar

4503 by Ar

4144 by Ar, Kr

3269 by Ar, N₂

3492 by He

3890 by He, Ne

3788 by He, Ne, Ar, Kr, Xe

3589 by Hg

3328 by Hg

3661 by Kr

3571 by Ne, Kr, Xe

4002 by Xe

E,T

3207 by Ar

3266 by He, Ne, Ar, Kr, Xe

3695 by He, Ne, Ar, Kr, Xe

3157 by Hg

3440 by Hg

4330 by Hg

3970 by Hg

T

3702 by Ar, Kr, Xe

4286 by He, Ne

4852 by He, Ne

3926 by He, Ne, Ar, Kr, Xe

3585 by He, Ne, Ar, Kr, Xe

3506 by Hg

4103 by Hg

I I

E

3983 by Ar, O₂, I₂, I

4969 by Ar, O₂, I₂

3339 by He, O₂, H₂

4728 by I

4069 by O₂

T

3339 by He

4969 by Ne, Ar, Kr, Xe, O₂

In I

3223 by Hg

E

3223 by Hg

E,T

3540 by Ar-O₂-H₂

4163 by He, Ne, Ar, Kr, Xe, H₂, N₂

3540 by N₂-O₂-H₂

Perturbed element; perturbing element; reference number as in part 3.

T

3382 by Ar, Kr, Xe

K I

E

3673 by Ar

3846 by Ar

3822 by Ar

4970 by Ar

3755 by Cs

3195 by He, Ne, Ar, Kr, Xe, N₂

4327 by He, Ne, Ar, Kr, Xe

4328 by He, Ne, Ar, Kr, Xe

4360 by N₂, CO₂

3971 by Ne

4011 by Rb

E, T

3604 by air-C₂ H₂

3867 by Ar

3797 by Cs

3689 by He, Ar

3862 by He, Ne, Ar, Kr, Xe

3117 by He, Ne, Ar, Kr, Xe

3401 by He, Ne, Ar, Xe

3796 by K

4643 by K, Rb

3633 by Ne

3634 by Ne

4842 by Ne

4140 by Rb

T

4994 by Ar

3093 by Ar

4952 by H

4540 by He, Ne, Ar, Kr, Xe

3195 by He, Ne, Ar, Kr, Xe

4746 by He, Ne, Ar, Kr, Xe, N₂, K

3238 by H, He, Ne, Ar, Kr, Xe

4213 by K

5030 by K, Rb

4274 by Na

4964 by Rb, K

Kr I

E

3679 by He, Kr

4122 by He, Ne, Kr

T

4946 by He

4853 by He, Ne

4122 by He, Ne, Ar, Kr

3327 by Kr

4947 by Ne

Li I

E

3353 by Ar

4114 by Ar, Kr, Xe

3790 by He, Ne

3855 by He, Ne, Ar, Kr, Xe

3685 by He, Ne, Ar, Kr, Xe

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3839 by He, Ne, Ar, Kr, Xe

4534 by He, Ne, Ar, Kr, Xe

4109 by Li

3925 by Li

T

3605 by Ar, He

4286 by He, Ne

E,T

4105 by Cs

3117 by He, Ne, Ar, Kr, Xe

Mg II

E

3656 by He, Ar

3826 by He, Ar

T

4952 by H

3093 by He

4094 by He, Ne

4540 by He, Ne, Ar, Kr, Xe

3238 by H, He, Ne, Ar, Kr, Xe

3896 by Li, He, Ne

4213 by Li, Na, K

T

3605 by Ar, He

4729 by H

4485 by He

Mn I

Mg I

E,T

3604 by air-C₂ H₂

E

4760 by Ar

4336 by H₂

3656 by He, Ar

3826 by He, Ar

4795 by He, Ne, Ar, Kr, Xe

Na I

C

3178 by Ar

4493 by H

E,T

4750 by Ar

3425 by Ar, Kr, Xe

4611 by H₂, He

C,T

4383 by H

3709 by He, Ne

E

3115 by Ar

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3170 by Ar	3824 by N_2 , Na_2
3606 by Ar	3907 by Ne
3353 by Ar	3590 by Ne, Ar, Xe
4008 by Ar	4595 by Ne, Ar, Xe
4351 by Ar, H, H_2	3658 by Ne, Kr, Xe
3681 by Ar, N_2 , H_2 , H_2O , H_2-O_2	4624 by Ne, Xe
-Ar, $H_2-O_2-N_2$, $C_2H_2-O_2-N_2$, CO-CO ₂	3659 by Ne, Xe, Kr
3682 by Ar, N_2 , H_2O , $H_2-O_2-N_2$,	3372 by NO, CO, N_2O
H_2-O_2 -Ar	4036 by Rb, Cs
3579 by H_2-O_2 -Ar	3767 by Xe
3183 by $H_2-O_2-N_2$, H_2-O_2 -Ar, C_2H_2	
$-O_2-N_2$	
3524 by He	E,T
3781 by He	3604 by air- C_2H_2
3773 by He	3503 by Ar
4477 by He	3540 by Ar- O_2 - H_2
4478 by He	3772 by He
3373 by He, Ar, H_2 , N_2	4573 by He, Ar
3551 by He, Ar, H_2 , N_2 , N_2O , CO, NO	3823 by He, Ne, Ar
3866 by He, Ar, Kr	3588 by He, Ne, Ar, Kr, Xe
4003 by He, Ar, Kr	3142 by He, Ne, Ar, Kr, Xe
3146 by He, Ar, N_2	4082 by He, Ne, Ar, Kr, Xe
4828 by He, Ar, Xe, N_2	3509 by He, Ne, Kr
3984 by He, N_2 , Ar, Kr	3570 by Hg
3349 by He, Ne	4407 by Hg
3293 by He, Ne, Ar	4245 by K, Rb, Cs
3490 by He, Ne, Ar, Kr, Xe	3338 by Kr
3449 by He, Ne, Ar, Kr, Xe	3540 by $N_2-O_2-H_2$
3491 by He, Ne, Ar, Kr, Xe	3941 by Ne
3525 by He, Ne, Ar, Kr, Xe	4174 by Ne, Kr, Xe
3499 by He, Ne, Ar, Kr, Xe	4623 by Ne, Xe
3262 by He, Ne, Ar, Kr, Xe	4625 by Ne, Xe
3768 by He, Ne, Ar, Kr, Xe	4597 by Xe
3715 by He, Ne, Ar, Kr, Xe	
3246 by He, Ne, H	
3986 by N_2	T
4073 by N_2 , H_2O	3203 by Ar

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3275 by Ar	
3464 by Ar	Ne I
4809 by Ar	
4720 by Ar	C,T
3681 by Ar	4779 by He
4828 by Ar	
4173 by Ar, Kr, He, Xe	
3777 by Ar, Kr, Xe	E
3919 by Ar, Kr, Xe	3140 by He
4827 by Ar, Xe	3595 by He-Ne, Ne
4361 by H	3323 by He, Ne
4399 by H	3616 by He, Ne
4400 by H	3615 by He, Ne
4401 by H	4122 by He, Ne
4953 by H	3979 by He, Ne
3748 by He	3953 by He, Ne
4016 by He	3954 by He, Ne
3899 by He	3864 by He, Ne
4088 by He	3617 by He, Ne
3093 by He	4276 by He, Ne
4718 by He, Ar	4423 by He, Ne
3106 by He, Ar, Kr, Xe	4961 by He, Ne
4952 by He, H, Ne, Ar, Kr, Xe	4473 by He, Ne, Ar, Kr
3302 by He, Ne, Ar, Kr, Xe	3260 by He, Ne, He-Ne
3832 by He, Ne, Ar, Kr, Xe	3141 by Ne
4194 by He, Ne, Ar, Kr, Xe	4384 by Ne
4392 by He, Ne, Ar, Kr, Xe	4551 by Ne
4540 by He, Ne, Ar, Kr, Xe	4180 by Ne
4746 by He, Ne, Ar, Kr, Xe, N ₂ , Na	4087 by Ne
4055 by He, Ne, Ar, Xe	4272 by Ne
3450 by Hg	4632 by Ne
3238 by H, He, Ne, Ar, Kr, Xe	
4274 by K	
4213 by Na, K	E,T
3364 by Ne	4744 by He, Ar, Ne
4731 by Ne, Xe	3438 by He, Ne
3372 by NO, CO	3487 by Ne

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3567 by Ne

T

4854 by He

4946 by He

4341 by He-Ne, Ne

3088 by He, Ne

3599 by He, Ne

4122 by He, Ne

3439 by Ne, He

3204 by Ne, He-Ne

Pb I

E

4199 by air-C₂H₂, air-H₂

4983 by Pb

E, T

5038 by Ar, He

Rb I

C

4063 by He, Ne, Ar, Kr, Xe

C, E, T

3921 by Ar, N₂

E

4441 by Ar, He

3794 by CH₄

4011 by Cs, K

3674 by He

4487 by He

4997 by He

3486 by He, Ar

4442 by He, Ar

3929 by He, Ar, Xe

3933 by He, Ne, Ar

3311 by He, Ne, Ar, Kr

3608 by He, Ne, Ar, Kr

3186 by He, Ne, Ar, Kr, Xe

3678 by He, Ne, Ar, Kr, Xe

4062 by He, Ne, Ar, Kr, Xe

4325 by He, Ne, Ar, Kr, Xe

4329 by He, Ne, Ar, Kr, Xe

4642 by Ne, Kr, H₂

3569 by Rb

3885 by Rb

3403 by Rb

4116 by Xe

4070 by Xe

3609 by Xe, N₂, CH₄

E, T

3798 by He, Ar

3442 by He, Ne, Ar, Kr, Xe

3118 by N₂, Ar

3193 by N₂, He

4643 by Rb

T

3215 by Ar, Kr, Xe

3240 by Ar, Kr, Xe

3134 by He

3106 by He, Ar, Kr, Xe

4939 by He, Ar, Kr, Xe

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3135 by He, Ne, Ar, Kr, Xe	
3435 by He, Ne, Ar, Kr, Xe	
4746 by He, Ne, Ar, Kr, Xe, N ₂ , Rb	E
3831 by He, Xe	3150 by Ar
3832 by He, Xe	3656 by He, Ar
4173 by He, Xe	3826 by He, Ar
3238 by H, He, Ne, Ar, Kr, Xe	3961 by He, Ar, Kr, Xe
5030 by K, Rb	3939 by He, Ne, Ar, Kr, Xe
4352 by Kr	4700 by He, Ne, Ar, Kr, Xe
3093 by Kr	4005 by He, Ne, Kr
3324 by N ₂ , He	3414 by He, Xe
4964 by Rb, K, Cs	3930 by He, Xe
3254 by Xe	4070 by Xe
3955 by Xe	
4275 by Xe	

Si I

E, T

3374 by H

E, T

3540 by Ar-O₂-H₂

3663 by Ar, Xe

3540 by N₂-O₂-H₂

T

3203 by Ar

T

3203 by Ar

4469 by Ar

4506 by Ar

4286 by He, Ne

5018 by Xe

Sm I

E

4769 by He

4398 by He, Ar

4646 by He, Ne, Ar, Kr, Xe

4645 by Kr

Sr II

E

4588 by Ar

3656 by He, Ar

3826 by He, Ar

4373 by He, Ne, Ar

Sr I

C, T

4056 by Ar, Kr, Xe

Perturbed element; perturbing element; reference number as in part 3.

Tl I

E

3381 by Ar
 4363 by Ar
 3571 by Ar
 4844 by Ar, He
 4205 by CO
 3876 by CO₂
 3510 by H₂
 3341 by H₂
 4620 by He, Ar
 4490 by He, N₂
 3924 by He, Ne, Ar, Kr, Xe
 4539 by He, Ne, Ar, Kr, Xe
 4261 by He, Ne, Ar, Kr, Xe, H₂, N₂,
 CO₂
 3121 by He, Ne, Ar, Kr, Xe
 3223 by Hg
 3875 by N₂
 4364 by N₂, He
 4570 by Ne, Ar
 4571 by Ne, Ar
 3571 by Ne, Kr, Xe
 4059 by SF₆
 3208 by Tl

E, T

3512 by D₂
 3705 by He, Ne, Ar
 3874 by He, Ne, Ar, Kr, Xe
 4354 by He, Ne, Ar, Kr, Xe, H₂, D₂,
 O₂, N₂, CO₂, SF₆, CO
 4668 by He, Ne, Ar, Kr, Xe
 4651 by He, Ne, Ar, Kr, Xe

3570 by Hg

3511 by Kr, Xe
 4692 by Kr, Xe
 4691 by Kr, Xe
 4789 by Ne, Ar
 4331 by Tl
 4039 by Xe
 4040 by Xe

T .

4703 by Ar
 3239 by Ar, Kr, Xe
 3382 by Ar, Kr, Xe
 4151 by Ar, Kr, Xe
 3947 by He, Kr, Xe
 4247 by He, Ne, Ar, Kr, Xe
 4497 by He, Ne, Ar, Kr, Xe

Tm I

E

4398 by Ar
 4128 by He
 4539 by He
 4645 by Kr
 4944 by Xe

U I

E, T

4241 by He, Xe

Xe I

E

4990 by He, Ne, Ar

Mechanism : van der Waals.

Perturbed element; perturbing element; reference number as in part 3.

3232 by He, Ne, Ar, Xe
5027 by He, Ne, Ar, Xe
3393 by He, Xe
4122 by He, Xe
3657 by Xe
4051 by Xe
4145 by Xe
3959 by Xe

E,T

3194 by He
3757 by He, Ne, Ar, Xe
3870 by Xe

T

4946 by He
4853 by He, Ne
4122 by He, Ne, Ar, Kr, Xe
4947 by Ne
3327 by Xe

Yb I

E

5020 by He, Ne, Ar, Kr, Xe, Yb

E,T

5043 by He
4538 by He, Ar, Xe

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1982

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1983

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1984

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1991

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1992

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4. LIST OF AUTHORS.

Author. Ref. No. from Part 3.	Author. Ref. No. from Part 3.
Abadie D. 3879, 4086, 4358, 4816	Agladze N. I. 4539
Abbas A. 4655, 4656, 4657	Agresti A. 4658
Abd El-Aal Z. A. 4655	Akazaki M. 4705
Abdel-Aal Z. A. 4656, 4657, 4770	Akhmedov E. Kh. 4256
Abdulla A. G. H. 4869	Akhmedzhanov R. A. 4126
Ackerhalt J. R. 4823	Akhrem A. A. 4001
Ackermann U. 3937, 4255	Akul'shin A. M. 3783
Adachi A. 3185	Al-Hilfy A. 3784
Adachi Y. 4578, 4725, 4805	Al-Saqabi B. N. I. 4540
Adcock J. C. Jr. 3782, 3938	Al-Shiraida Y. S. 3242, 3426
Adler H. 4412	Alam R. C. 4857
Adler H. G. 4948	Alastuey A. 4127, 4949
Aferenko E. V. 4762	Alaterre P. 4257, 4431
Afonin S. V. 4125	Alber G. 4258, 4259, 4260, 4413
Agarwal G. S. 3901, 4763	Aleksandrov E. B. 3596, 4128, 4261

Aleksandrovich K. V.
3100, 3126

Alekseev V. A.
3101, 3127

Alexiou S.
4662, 4858, 4859

Alford W. J.
3939, 4057, 4129, 4262, 4419,
5027

Ali Y. M.
3684

Alipieva E. A.
3102

Alkemade C. Th. J.
3183, 3230, 3579, 3681, 3682,
3920, 4073, 4523, 4623, 4624,
4625

Allano D.
3701

Allard F.
4860

Allard N. F.
3321, 3427, 3473, 3500, 3785,
3786, 3940, 4130, 4263, 4541,
4659, 4660, 4861, 4862, 4950,
4951

Allegrini M.
4895

Allen L.
3981

Alley W. E.
3787

Alvarez II R. J.
4918

Alvarez J. M.
3107, 3128, 3259, 3437, 4211

Amare J. C.
3107, 4211

Amini B.
4414

Aminoff C. G.
3369, 3892, 3941

Amir A.
4585

Andersen N.
4129, 4262

Andersen T. B.
3428

Anderson L.
4564

Anderson V. E.
3363

Andreev E. A.
3597

Andretta V.
4952

Angelie A.
4415

Anstee S. D.
4953

Anufrienko A. V.
4863

Apai P.
4735

Apruzese J. P.
4264, 4265, 4954

Arata Y.
4131, 4132, 4266, 4542, 4543

Araujo J. M. R.
3598

Arbadji S. A.
3788

Archirel P.
4676

Arditi M.
3307

Argawal G. S.
4544

Arnoldus H. F.
4267, 4545

Arnous E.
3942

Artru M. C.
4715

Ashkenazy J.
4955

Atadzhanov M. R.
3789

Atamas S. N.
4133

Atanackovic-Vukmanovic O.
4884, 5028

Atkinson J. B.
3933

Aubes M.
3970

Audebert P.
4134, 4257, 4431

Auerbach J. M.
3243

Auluck S. K. H.
4831

Averbukh I. Sh.
4628

Ayers E. L.
4661

Babaev A. S.
3244

Babaev V. S.
3129, 3130, 3244, 3429

Bacchus-Montabonel M. C.
4268

Bachet G.
3537

Bacis R.
4969

Bäckström M.
4135

Bacri J.
4956

Badie J. M.
4864, 4956

Baessler P.
3245, 3430

Bailey D. S.
3243

Baird J. C.
4662, 4859

Baird J. P.
3246

Baird P. E. G.
3247, 4817

Bakaev D. S.
3131, 3599

Baker E. A. M.
3132, 3248

Baklanov E. V.
3600, 3601

Baklanov Ye. V.
3249

Bakshi P.
4865, 4911

Bakshi V.
4764, 4765, 4766

Balashov A. A.
4539

Baldwin K. G. H.
3286, 4136, 4269, 4416, 4723

Ballagh R. J.
3103, 3154, 3446, 3452, 3779,
3804, 4778

Balling L. C.
3790

Bambini A.
4658, 5037

Band Y. B.
4483

Banon J.
4137

Banon J. M.
4270, 4546, 4767, 4768

Baravian G.
4547

Barbeau C.
4928

Bardet J. P.
3943, 4417, 4866, 4943

Bardinov A. A.
4418

Barkov L. M.
4769

Barnard A. J.
3315, 3368, 3612, 4222

Baronets P. N.
4957

Baronnet J. M.
3250

Barr D.
3759

Baryshenkov F. F.
3602

Baryshnikov F. F.
3431

Basha T. S.
4655, 4656, 4657, 4770

Bassalo J. M.
3133, 3432, 3598, 3603, 3791

Bassani F.
3944

Bassini M.
3261

Bassyouni A. H.
3433, 3604, 3792, 3945

Bastian J.
3942

Batal A.
3605

Batenin V. M.
3251

Bates R. H. T.
4608

Bathia K. S.
4271

Batyghin V. V.
3252

Batygin V. V.
3104, 3105, 3106, 3134, 3135,
3253, 3254, 3434, 3793, 3946,
3947

Batygin Vit. V.
3435

Batygin Vl. V.
3435

Bauder U. H.
4501

Bava E.
3948

Baylis W. E.
3949

Beckers J. M.
3136

Behmenburg W.
3207, 3255, 3503, 3606, 4509,
4573

Behnke J. F.
4138

Behringer K.
3137

Beilin E. L.
4771

Bekefi G.
3396

BelBruno J. J.
3607, 3774

Belov V. N.
3608, 3609, 3610, 3794

Belsley M.
4262, 4419, 4420, 4548, 4968

Belsley M. S.
4663

Bely-Dubau F.
3256, 3257

Belyaev M. V.
3600

Ben Lakhdar Z.
3890

Ben-Reuven A.
3611, 3800

Benesch W.
4139, 4661

Bengtson R. D.
3347, 3348, 3521, 3950, 4077,
4421

Beniaminy I.
3812

Benjamin R. D.
4664

Bennett W. R. Jr.
3138, 3487

Benredjem D.
4470, 4491

Benredjem D. E.
4867

Berard M.
3951

Berezin A. B.
3952, 4418

Berezin I. A.
3100, 3126

Berkeland D. J.
4992

Berkovsky M. A.
4868

Berman P. R.
3139, 3258, 3338, 3424, 3436,
3509, 3685, 3760, 3795, 4658,
5012

Bernabeu E.
3107, 3128, 3259, 3437, 4211,
4767, 4768

Bernard J. E.
3612

Bernu B.
4422

Beroff K.
3142, 3262, 3302

Bertschinger G.
3467

Bertuccelli D.
4958, 4959

Bertuccelli G.
4682, 4781, 4958, 4959, 4960

Bessho S.
3197

Beuc R.
3755, 3796, 3797, 4140

Beverini N.
3613, 4272, 4744

Bhatia A. K.
3496, 5029

Bhatia K. S.
4869

Bialas J.
3614

Bielski A.
3140, 3141, 3260, 3438, 3439,
3511, 3615, 3616, 3617, 3705,
3875, 3876, 3953, 3954, 4205,
4273, 4276, 4354, 4423, 4532,
4551, 4652, 4870, 4961, 4962

Bieniek R. J.
3955, 4274, 4275, 4549

Bilinska D.
4205

Billou E.
4864

Biraben F.
3090, 3142, 3178, 3261, 3262,
3302, 3870, 4895, 4963

Biraud Y. G.
3427, 3785, 3940, 4130, 4263,
4541, 4659

Birnbaum G.
3263, 4141

Bitter M.
3264, 3618

Bjorkholm J. E.
3258, 3338, 3509

Blades M. W.
4279, 4550, 4557

Blaha M.
3182, 3300, 3810, 4665, 4871,
4900

Bleize J. J.
4394

Bloch D.
3821

Bobatto G. E.
4727

Bobin J. L.
4866

Bobkowski R.
3615, 3953, 3954, 4059, 4276,
4423, 4551, 4570, 4789

Böddeker St.
5005

Boédo J.
4421

Boercker D. B.
3956, 3957, 4142, 4295, 4317,
4552, 4894, 4987

Bogdanov Yu. V.
4424, 4553, 4666, 4772

Boiko V. A.
3265, 3619, 4143

Bokun V. C.
4840

Bombarda F.
4773

Bommier V.
4975, 4976, 4977, 4978

Boriev I. A.
3958

Borisova N. F.
3905, 4247

Borodin V. M.
4667, 4964, 5030

Borstel M. v.
4668

Boshier M. G.
4992

Böttcher F.
4554, 4617, 4669, 4695, 4907,
5044

Botzanowski Y.
4235, 4385, 4386

Bouchoule A.
3367

Boulet C.
3143

Boumans P. W. J. M.
4425, 4555

Bourdin E.
3250

Bourke P.
3592

Bousquet C.
3266, 3440, 3622, 3960, 4144,
4426, 4670

Bower J.
3540

Böwering N.
3959, 4145

Bowman N. J.
3144

Boyarskii K. K.
3102

Boyer D. W.
3145

Brablec A.
4277, 4556, 4671

Bracco G.
3620

Bradley K. R.
4829

Bradshaw J.
3540

Bragt D. van
5042

Brandt T.
3621

Bras N.
3266, 3440, 3622, 3960, 4144

Brault J. W.
4297

Brault P.
4593, 4672

Bravo-Ortega A.
4807

Bredice F.
4682, 4781

Breene R. G. Jr.
3623

Breger P.
3477, 3478, 3479, 3670, 3671,
3844, 4669, 4804, 4905

Breton C.
3441, 3620

Brezna E.
3267

Brillet W.-Ü L.
3442, 3633, 3634, 3971

Bromage G. E.
3336

Brooks N. H.
4000

Brooks W. S. C.
4673

Bruce D. M.
3146, 3798, 3961, 4271

Bryl K.
3616

Brym S.
4961

Buchwald R.
3467

Buffa G.
3962, 4427

Buffa R.
4965, 5037

Bukhvalov A. V.
3946

Bukshpun L. M.
4133

Bukvic S.
4081

Bulyshev A. E.
4674

Bunkin F. V.
4143

Bykova N. G.
4957

Burgess D. D.
3132, 3147, 3148, 3221, 3248,
3268, 3443, 3624, 3625, 3799,
4074, 4136, 4269, 4337, 4345,
4416, 4723

Bzenic S. A.
4966

Cabral-Prieto A.
4807

Burggraf H.
4003

Caby M.
3527, 3528, 3719, 4491

Burgmans A. L. J.
3806

Cagigal M. P.
4171

Burnett K.
3247, 3444, 3445, 3446, 3452,
3574, 3779, 3800, 3804, 3863,
3939, 4057, 4129, 4262, 4419,
4420, 4839

Cagnac B.
3090, 3112, 3178, 3261

Cahuzac Ph.
3448

Burrell K. H.
4000

Cajko J.
3083

Burton L. L.
4550, 4557

Calisti A.
4558, 4675, 4872, 4873, 4912,
4934

Burtsev V. A.
4418

Callaway J.
4942, 4967, 5023

Busca G.
3413

Calvert J. G.
3340

Bussery B.
4969

Cameron D. G.
4147

Butaux J.
3269, 3270, 3447

Camparo J. C.
3963

Butikov E. I.
4146

Caner M.
4955

Butler K.
4836, 4837

Capek V.
4774

Butler L. R. P.
3466

Capozzi F.
4968

Cappelli M. A.
4148, 4559

Capron B. A.
4428

Cardenoso V.
4447, 4448, 4580, 4775, 4796

Carillon A.
3312, 3313, 3852, 4479, 4910

Carlhoff C.
4278, 4429

Carlsten J. L.
3208, 3381

Carrington C. G.
3088

Caste M. C.
4098

Castell R.
3900, 3964, 4032

Castex M. C.
4051

Catherinot A.
3820

Cattani M.
3133, 3432, 3598, 3603, 3791,
3801

Cauble R.
3802, 3965, 3966, 4265

Caughlin B. L.
4279, 4550

Ceglio N. M.
4284

Cerny D.
4969

Cerny T. M.
5036

Ch'en S. Y.
3414, 3473, 3655

Chaika M. P.
3513, 3610, 3789, 4334

Chambaud G.
3271, 4430, 4676, 4932, 5016

Chan L. K. P.
4149

Chan S.-K
4776

Chang R. K.
4572

Chapelle J.
3111, 3165, 3169, 3174, 3292,
3411, 3468, 3469, 3969, 4106,
4281, 4282, 4481

Chapline G.
3787

Charton G.
3658, 3659, 4174, 4453

Chatham R. H.
3449

Chebotayev V. P.
3249, 3967

Chen C. J.
3149

Chen D. A.
4644

Chen S. Y.
3150

Author. Ref. No. from Part 3.

Author. Ref. No. from Part 3.

Chen T. J.
3685, 3855

Chenais-Popovics C.
4257, 4431

Cherkasov M. R.
4474

Chevillot A.
4541, 4659

Chiang W. T.
3151, 3152

Chiba H.
5020, 5043

Chien Y. M.
3450

Chirkov V. A.
3619, 3676

Chotin J. L.
4351, 4477, 4478

Chouan Y.
4547

Chu S.-I
4141, 4742

Churilov S. S.
3502

Cirkovic L. M.
4249

Cirkovic Lj.
3084

Cirkovic Lj. M.
3098, 3803, 4112, 4405, 4630,
4741

Ciziunas A. R.
3390

Clark B. O.
3412

Clark P. K.
4069

Claude M. L.
3626, 4150

Clough S. A.
3272, 3809

Cobble J. A.
3273

Cohen L.
4170

Cohen-Tannoudji C.
3153, 3384, 3898

Colbert T.
4595, 4970

Coleman G. N.
4119

Collins C. B.
4111

Collins G. J.
3346

Cook R. J.
4823

Cooke W. E.
3451, 3652

Coonrod J.
3563

Cooper I. L.
4485, 4614, 4729

Cooper J.
3092, 3103, 3154, 3171, 3274,
3294, 3444, 3445, 3446, 3452,
3574, 3745, 3779, 3800, 3804,
3805, 3863, 3939, 3968, 4057,

Author. Ref. No. from Part 3.

4129, 4234, 4259, 4260, 4262,
4355, 4413, 4419, 4420, 4465,
4548, 4561, 4639, 4663, 4749,
4750, 4777, 4778, 4827, 4913,
4984

Cope D.
4560, 4677, 4678

Copeland G. E.
4008

Cornelissen H. J.
3806

Corney A.
3088, 3108, 3627, 3807

Cornille M.
3817

Coudert J. F.
3250

Couillaud B.
3700

Coulaud G.
3169, 3292, 3468, 3469, 3527,
3528, 3719, 3884, 4214, 4470,
4491, 4867

Couris S.
4331

Coutts J.
4561, 4663

Cram L. E.
4280

Crampton S. B.
4647

Cremers R. M. M.
4503

Crumley R. J.
3457

Author. Ref. No. from Part 3.

Cuk M.
3699, 3871, 4048, 4083, 4223,
4224, 4371, 4372, 4629, 4736,
4738, 4739, 5010

Cullmann E.
3155

Curzon F. L.
3612

Cyr N.
3921, 3922

Czainski A.
4986

Czernichowski A.
3159, 3969, 4281, 4282, 4481

Czerwosz E.
3661

Czub J.
3628, 4874

Czuchaj E.
3275, 3453, 4151, 4152, 4380

D'Etat B.
4348, 4562, 4563

D'yachkov L. G.
4679, 4875

Dabkiewicz P.
3459

Dagenais M.
3629, 3808

Dalgarno A.
4141

Dalibard J.
3898

Damany H.
3327, 3328

Davis S. J.
3983, 4069

Damaschini R.
3156, 3247, 3448, 3630, 3631

Davy P.
3367, 3820

Damelincourt J. J.
3157, 3970

De Frutos A. M.
4926, 5007, 5008

Danby G.
4729

De Galan L.
4846

Danzmann K.
4432

De Groot J. J.
4407, 4635

Däppen W.
4564

De la Rosa I.
5007, 5008

Darowicki H.
3260

De La Rosa M. I.
4926

Darrigo R.
3701

De Loos-Vollefregt M. T. C.
4846

Das P. P.
3471

De Marchi A.
3948

Das T. P.
3896

De Michelis C.
3441

Datla R. U.
3276

Deavor J. P.
4172

Datskou I.
4896

Deckman H.
3423, 3592

Dattagupta S.
4283

Dehesa J. S.
3811

Davidovich L.
3158

DeHoog F. J.
3346

Davies R. W.
3809

Deinezhenko A. L.
4680

Davis J.
3462, 3488, 3632, 3810, 4265,
4665, 4871

Delamater N. D.
4284, 4906

Deleltrez J.
3423

Delheij P. P. J.
4997

Delhoume M.
3633, 3634, 3971

Delone N. B.
3109

Delpech J. F.
3558

Delsart C.
3454

Demkin V. P.
3175

Demura A. V.
3091, 4863

Den S.-J.
4829

Deng C.-H.
3277

Denize S.
4919

Denton M. B.
4735

Deridder G.
3580

Derzhiev V. I.
4143

Desyatnik G. A.
3291

Deutsch C.
3668, 3669, 3842, 3843, 3972,
4013, 4153, 4178, 4179, 4312,
4876

Deutsch M.
3812

Devdariani A. Z.
4285, 4286, 4681, 4779

Devi V. M.
3471

Devyatov A. M.
3586

Dewhurst R. J.
3455, 3456

DeWitt H. E.
4030, 4318

Dhali S. K.
3457

Dharma-wardana M. W. C.
3458, 4369, 4433, 4927

Di Lieto A.
4359, 4427, 4484

Di Rocco H. O.
4682, 4780, 4781, 4877, 4878,
4958, 4959, 4960

Diatto C. S.
3159

Diaz M. A.
4683, 4879

Dickinson A. S.
4361, 4383, 4485, 4614, 4729

Dickinson P. H. G.
4322

Dietz K. J.
3459

Dietz Th.
3568

Dijkerman H. A.
4523

Dimarcq C.
4866, 4943

Dimitrijevic M. S.
3160, 3161, 3162, 3209, 3211,
3212, 3278, 3279, 3280, 3281,
3282, 3326, 3371, 3460, 3635,
3636, 3637, 3638, 3639, 3640,
3694, 3813, 3814, 3815, 3816,
3817, 3818, 3973, 3974, 3975,
3976, 3977, 3978, 4041, 4113,
4154, 4155, 4156, 4157, 4158,
4196, 4197, 4287, 4288, 4289,
4290, 4291, 4292, 4399, 4400,
4401, 4434, 4435, 4436, 4437,
4438, 4439, 4440, 4565, 4566,
4567, 4684, 4685, 4686, 4715,
4756, 4782, 4783, 4784, 4785,
4786, 4813, 4814, 4848, 4880,
4881, 4882, 4883, 4884, 4885,
4886, 4887, 4888, 4893, 4971,
4972, 4973, 4974, 4975, 4976,
4977, 4978, 4986, 5010, 5028,
5031, 5032

Djenize S.
4630, 4631, 4687, 4736, 4737,
4738, 4739, 4740, 4741, 4787,
4889, 4890, 4891, 4892, 4933,
4979, 4980, 4981, 4982, 4996,
5011, 5033, 5034, 5035

Djeu N.
3589

Djulgerova R.
3110

Djuric Z.
4784

Djurovic S.
4613, 4688, 4689, 4690, 4788,
4801, 4849, 4893, 5001, 5002

Dmitrieva I. V.
3979

Dobrichev V.
4159

Dodsworth B.
3089

Dokurno W.
3438, 3615, 3616, 3617

Donin V. I.
3461

Donohue D. E.
4167

Dragalov V. V.
4568

Drake J. J.
4637, 4747

Drawin H. W.
3163, 3164, 3283, 3284, 3406,
3641, 3752, 3819, 3914

Drummond J. R.
4293

Dubkov V. I.
4160

Dubourg I.
4441, 4442

Dubreuil B.
3165, 3367, 3820, 3980, 4294,
4498

Ducloy M.
3821

Duff J. W.
4101

Dufty J.
4029

Dufty J. W.
3956, 4295, 4552, 4894

Dugan C. H.
3351

Duley W. W.
3146, 3798, 3961, 4271

Dunaev V. V.
3285

Dunlop J. R.
5036

Dupont-Roc J.
3384, 3898

Düren R.
3822

Durrant A. V.
4161, 4162, 4480

Duston D.
3462

Dyachkov L. G.
4569

Dygdala R.
3953, 3954

Dygdala R. S.
3876, 4570, 4571, 4691, 4692,
4789

Ebeling W.
4790, 4914

Eberly J. H.
3166

Eberz J.
4163

Eckart M. J.
3246, 3286

Edmonds A. R.
3576

Egorov V. K.
4164

Ehrich H.
3287, 3288, 3463, 3666

Eicher C. A.
3981

Eickmans J. H.
4572

Eigenson E. B.
4360

Einwohner T.
4092

El-Farra M. A.
3982

Elias L. R.
4585

Ely D.
3768

Engel'sht V. S.
3303

Engleman R. Jr.
3167, 3983

Erchov
3250

Erez G.
3115, 4241, 4582

Erickson G. J.
3464

Ermers A.
4573

Ernst K.
4272

Esrom H.
3642

Evans R. G.
3318

Evensky D. A.
4296

Everett D.
3268

Ewart P.
3823, 4420, 4968

Exton R. J.
3168, 4574

Fabrikant I. I.
4964

Fabry M.
4443, 4618

Faenov A. Ya.
3265, 3619

Fafurina E. N.
3130, 3244, 3429

Faid K.
4444

Faires L. M.
4297

Farley J. W.
3643

Fassel V. A.
3329, 3880

Fauchais P.
3250

Fazakas J.
4693

Feautrier N.
3317, 3576, 3633, 3634, 3637,
3815, 3817, 3971, 3973, 4102,
4239, 4240, 4388, 4389, 4396,
4397, 4841, 4842, 4932, 4936,
5016

Fedorova T. N.
4301, 4306

Feldman U.
4619

Ferguson A. I.
3297, 3330

Ferray M.
3391, 3465, 3559, 3560, 3644,
3762, 4441, 4442

Ferreira N. P.
3466, 3645

Ferrell W. R.
4575

Field J. E.
4983

Filatov P. P.
3575

Filinov V. S.
3504, 3697

Findeisen M.
4002

Fini L.
5037

Finken K. H.
3289, 3290, 3467, 3937, 4255

Finkenthal M.
3441

Firstova N. M.
4165

Firth W. J.
3614

Fisanick G. J.
4167

Fishman I. S.
3291, 3483, 3646, 3742, 4093,
4376, 4467, 4508, 4576, 4633,
4743

Fiutak J.
3628, 4874

Flesch J.
4213

Fletcher S. J.
4857

Fleurier C.
3111, 3169, 3292, 3468, 3469,
4080, 4166, 4298, 4499, 4710

Flinsenbergh H. J.
3235

Flores-Llamas H.
4807

Flusberg A.
3170, 3293

Ford G. W.
4445

Foukal P.
4577

Fourcade N.
3470, 3647

Fournier P. R.
3674, 3832, 4173

Fox R. F.
4444

Fradkin E. E.
3575

Fragnac P.
3970

Fraile J.
4303

Francesconi M.
4744

Francisco J. S.
3648

Frankenberger R.
4115

Freeman A. J.
3507

Freeman G. H. C.
4322

Frerichs M. R.
4791

Freudenstein S. A.
3171, 3294

Freund R. S.
4167

Fridovich B.
3471, 4168

Friedberg R.
4792

Friedman M.
3649

Frish M. S.
3311, 3486, 3678, 4320, 4321

Froment N. M.
3650

Frommhold L.
4141

Frueholz R. P.
3963

Fu F. S.
4012

Fuhr J. R.
3172

Fujimaki S.
4578

Fujimoto T.
3295, 3578, 3651, 3824, 4244,
4299

Fujita J.
3651, 3710

Fujiwara M.
3710

Fukuda K.
3123, 3295, 3578, 3825, 3916,
3917, 3918, 3919, 4244

Fukuda Y.
3984

Fukushima H.
4192

Fukuyo H.
3118, 3193, 3324, 3495

Fukuzo Y.
3663

Fulton R. D.
4634

Furuhashi H.
4463

Gabriel A. H.
3256, 3257

Gainutdinov R. Kh.
4446, 4579

Gaisinskii I. M.
4762

Gaisinsky I. M.
3985, 4300, 4694, 4793

Galatry L.
3143

Gallagher A.
3173, 3442, 3449, 3986, 4024,
4025, 4036, 4368, 4828

Gallagher A. C.
3590

Gallagher T. F.
3451, 3558, 3652, 4395

Gallardo M.
4682, 4781

Ganapathy S.
3542

Gao B.
4984

Gaponov V. A.
4125

Garifo L.
3200, 3343

Garreau J. C.
4895

Garrett W. R.
4575, 4896

Gauthier J. C.
3296, 3653, 4134, 4257, 4431

Gavrilenko V. P.
3987, 4495, 4694, 4897, 4985

Gavrilov V. E.
4301

Gavrilova T. V.
4301

Gawron A.
4695, 4794, 4905

Gay J. C.
3585

Gburski Z.
3988, 4169

Gee J.
3846

Geiger J.
3423

Geindre J. P.
3296, 3653, 4134, 4257, 4431

Geisler M.
3654, 3989, 4302

Gelbwachs J. A.
4795

Gelfand J.
3607, 3774

Gendrin A. G.
4125

Gendzhov S.
3923

George T. F.
4545

Georgiou G. E.
3472

Gershun M. A.
4247

Giacobino E.
3142, 3262, 3302, 3870

Giannella R.
4773

Gietzel P. C.
3203

Gigosos M. A.
3344, 3990, 4242, 4303, 4304,
4313, 4447, 4448, 4449, 4450,
4451, 4521, 4580, 4775, 4796

Gilbert D.
3401

Gilbert D. E.
3473, 3655

Gilbert R. G.
3648

Giles R. G.
3656, 3826

Gilles D.
4415, 4898

Gillian L.
4577

Ginzburg M. D.
3206, 3723, 3889, 4217

Girardeau M. D.
3991, 3992

Girlanda R.
3944

Giry L.
4866, 4943

Gislason E. A.
4085

Glab W.
3717, 3827

Glaros S. S.
3243

Glasser J.
3174

Glavatskikh N. A.
4202

Glavonic V.
3213, 3736

Glavonjic V.
3379, 3380, 3553

Gleizes A.
4393

Glisic S. M.
3803

Glowienka J. C.
3273

Godone A.
3948

Godunov A. L.
4256, 4863

Goldbach C.
3345

Goldbach Cl.
3520, 3653, 3828, 3993

Goldberg A.
4581

Goldberg I. B.
5014

Goldman M.
3264

Goldsmith J. E. M.
3297, 3330, 3417

Goldsmith S.
4170, 4824, 4899, 5039

Golub I.
4582

Goly A.
3829, 3830, 3994, 4452, 4583

Gombert M. M.
3842, 3843, 4013, 4312

Gombert M.-M.
4178, 4179

Gomez M. T.
4584, 4952

Gonzalez F.
4171

Gonzalez M. A.
4797

Gonzalez V. R.
4797, 4926

Goode S. R.
4172

Gorchakov L. V.
3175

Gordon E. B.
3958

Gornik W.
3657

Gornyi M. B.
3104, 3134, 3135, 3253, 3254,
3435, 3995

Goto S.
4319

Goto T.
4463

Goudzwaard M. P.
4846

Gounand F.
3831, 3832, 4173

Gover A.
4585

Grabowski B.
3996, 4305, 4586, 4587, 4784,
4921, 4986

Grandjouan N.
3296, 3653

Granier J.
3658, 3659, 4453

Granier L.
4174

Granier R.
3658, 3659, 4174, 4453

Granneman E. H. A.
3680

Gravilov V. E.
4306

Gravilova T. V.
4306

Gray C. G.
3988, 4169

Grdlichko D. P.
3176

Greef L. G. M. de
3236

Green W. B.
4602

Greene R. L.
3298, 3833, 3834, 3835, 3997,
4454, 4496, 4732, 4733, 4734,
4913

Greenwald M.
3563

Greiner F.
4806

Griebble D. L.
3474, 3539

Griem H. R.
3151, 3152, 3188, 3276, 3299,
3300, 3359, 3476, 3660, 3782,
3836, 3860, 3938, 3965, 3966,
3998, 3999, 4170, 4265, 4307,
4455, 4617, 4634, 4696, 4697,
4707, 4708, 4798, 4824, 4850,
4900, 4901, 4907, 4908, 4987,
4988, 5039, 5044

Gries W.
5038

Griffiths P. R.
3474, 3539

Grimaldi F.
3458

Grimbert D.
3882, 3894

Günter S.
4800, 4989

Grin' L. E.
4202

Gunter W. H.
4530

Groebner R. J.
4000

Günther K.
4504, 4505

Grujic P.
3084, 3278, 3280, 3282

Gurevich B. M.
3134, 3435

Grujic P. V.
3160, 3162

Gurovich V. Ts.
3303

Grumberg J.
3527, 3528, 3719, 3884, 4562,
4563, 4670

Guzhva Yu. G.
3105, 3106

Grushetskii K. M.
4001

Hafez A. F.
3433

Grützmacher K.
3177, 3654, 3989, 4269, 4302,
4432, 4698

Hahn K. H.
4983

Grycuk T.
3661, 4002

Hahn T. D.
4902

Grynberg G.
3090, 3112, 3142, 3178, 3262,
3301, 3302

Halenka J.
3113, 3996, 4305, 4308, 4457,
4587, 4699, 4801, 4849, 4903

Güdde J.
5018

Hall J. L.
3337, 4184

Guilpin C.
3837

Halpern G.
3423

Guimerans Y.
4032, 4799

Hamaguchi Y.
3917, 3918, 3919, 4244

Gulyaev S. A.
3179, 3662, 4456

Hammel B. A.
4912

Gundersen M. A.
3457

Hammer D.
4076

Haner D.
4842

Hanle W.
3475

Hänsch T. W.
3700

Hansen J. P.
4422

Haraguchi H.
4309

Harde H.
4003

Harima H.
3663, 3754, 3838, 3909, 4004,
4005, 4006, 4588

Haroche S.
3739

Harris M.
3704, 3839, 4056, 4057, 4175,
4458, 4514, 4589, 4654

Harris S. E.
4983

Hart C. F.
3991

Hart R. C.
4896

Hartmann S. R.
3170, 3293, 3490, 3491, 3524,
3525, 3685, 3715, 3795, 3855,
3874, 4534, 4792

Hasegawa T.
4309

Hashi T.
3984

Hashimoto S.
3180, 3840, 4007

Hasselbrink E.
3822

Haubold H. J.
3304

Hauer A.
3423, 3476, 3664

Hauser M.
3568

Häusser O.
4997

Havey M. D.
3790, 4008, 4114

Hayes M. H.
4615

Hays G. N.
4990

Heber K.-D.
4700, 5018

Hebner G. A.
4990

Heering W.
4176

Hegerfeldt G. C.
3665, 3841, 4009, 4010, 4701,
4802

Heinke H.
4011

Helbig V.
3096, 3288, 3621, 3642, 3666,
3667, 4012, 4087, 4310, 4366,
4377, 4459, 4492, 4632, 4806,
4991, 5019, 5041

Held B.
3668, 3669, 3842, 3843, 4013,
4177, 4178, 4179, 4311, 4312,
4460, 4461, 4590, 4702, 4904

Helmcke J.
3337

Heneghan S. P.
4336

Hennecart D.
3788

Henry B. I.
4014, 4015

Herman P. S.
4094, 4809

Herman R. M.
4016

Hermann G.
4651, 4668, 4703

Hernandez G.
3305

Hernandez J.
4313

Herrero A.
4591

Hese A.
5038

Heselius S.-J.
4180

Hess H.
4017, 4181

Heuts M. J. G.
3920

Hey J. D.
3181, 3182, 3477, 3478, 3479,
3670, 3671, 3844, 4669, 4794,
4803, 4804, 4905

Hildebrandt J.
3480, 4018, 4019, 4462, 4592

Hill K. W.
3264, 3618

Hill R. M.
3352

Hillard G. B.
3827

Hillard M. E.
4574

Himbert M.
3384, 3898

Himmel G.
3306, 3350, 4020, 4830, 4834

Hindmarsh W. R.
3352

Hirabayashi N.
3415

Hiragi Y.
4314

Hiraki N.
3672

Hiramatsu M.
4463

Hirano I.
3307

Hirono M.
3845

Hirose A.
3242, 3426

Hirose C.
4578, 4725, 4805

Hitzschke L.
4017, 4181, 4333, 4464, 4704,
4832, 4989

Hoang-Binh D.
4593, 4672

Hof D. E.
4923, 5000

Hoffbeck F.
3153

Hogan D.
4200

Hohimer J. P.
3673, 3846, 4182, 4183, 4315

Hollander T. J.
3920

Hollander Tj.
3183, 3681, 3682, 4021, 4073,
4523, 4623, 4624, 4625

Hollberg L.
4184

Holstein T.
4368

Holys A.
3159

Honda C.
4705

Hooper C. F.
3592, 4187

Hooper C. F. Jr.
3683, 3776, 4030, 4121, 4253,
4284, 4598, 4612, 4758, 4759,
4906, 4922, 4999, 5026

Hooper Jr. C. F.
3849, 3850, 3934

Hora H.
3481, 4015

Hori H.
4909

Horst E. ter
4021

Horton R.
3264, 3618

Höss P.
4316, 4501

Howell R. H.
3482

Hsieh W.-F.
4572

Huang Y. W.
4907, 4908, 5044

Hubbard W. B.
4318

Hubeny I.
3968, 4022, 4023, 4465, 4594,
4778

Huber G.
4163

Huennekens J.
4024, 4025, 4595, 4970

Hugon M.
3674, 3832, 4173

Hugues T. P.
3982

Hühnermann H.
3308

Human H. G. C.
3097, 3466, 3645

Humlicek J.
3309, 3847, 4026

Hummer D. G.
3675, 3804, 3848, 4466

Humpert H. J.
3770, 3771

Hunter L. R.
4706, 4992

Hurst G. S.
3199

Hussein R. M.
4869

Hüwel L.
4857

Ichimaru S.
4535, 4536

Iglesias C. A.
3849, 3850, 3934, 4027, 4028,
4029, 4030, 4031, 4127, 4142,
4185, 4186, 4187, 4295, 4317,
4318, 4517, 4552, 4894, 4987

Iglesias E.
4032

Iglesias E. J.
4707, 4708, 4799, 4850

Ikawi K.
4938

Il'in G. G.
3483, 4467, 4576

Ilyukhin A. A.
3619, 3676

Imazu S.
3397, 3564

Inguscio M.
4272, 4744

Inoue Y.
4909

Irons F. E.
3484, 3485

Irwin A. W.
3310

Ishimura T.
4319

Ispolatov Ya. O.
4694, 4897

Issa M. A. A.
3433

Istrefi L.
4709

Itano W. M.
3677, 3851

Ito Y.
4319

Itoh S.
3672

Ivanov A. M.
3104

Ivanov L. N.
4188

Ivanov G. K.
3114

Iwasaki A.
3185

Iwasaki S.
3389

Izmailov A. M.
3429

Izotova S. L.
3311, 3486, 3678, 4320, 4321

Jabr S. N.
3487

Jackowska I.
4062, 4063, 4064

Jackson D. A.
3679

Jackson D. J.
3330

Jacobs V. L.
3488, 3632, 5026

Jaeglé P.
3312, 3313, 3852, 4479, 4910

Jäger H.
4365, 4622

Jamelet G.
4910

Jamelot G.
3312, 3313, 3852, 4479

Jannitti E.
3200, 3343, 3355, 3853

Janssen G. C. A. M.
3680

Javanainen J.
3941

Jayakumar R.
3680

Jeannet J. C.
3269, 3727, 3890

Jelenkovic B. M.
4966

Jelinek O.
4774

Jenkins D. B.
4322

Jess K.
4632, 4806

Jimenez-Dominguez H.
4807

Jitschin W.
3489

John R. W.
3304

Johnson B. C.
3545

Johnson D.
3618

Johnson P. M.
4353

Jolly J.
4928

Jones D. W.
4033, 4189, 4468, 4596

Jones L. A.
3315, 3493, 3686

Jones M. C.
4201

Jones R. N.
4034

Jongerius M. J.
3183, 3681, 3682, 4597

Jönsson G.
4190

Joos V. E.
3568

Jortner J.
3115

Joshi N. K.
4035

Joyce R. F.
3683, 3776, 4284, 4598, 4612

Julien L.
4895, 4963

Julienne P. S.
3854, 4191, 4469, 4483

Jungmann K.
3772, 3773

Jungner P.
4384

Junkes J.
3082

Juric Z. D.
4783

Jüttner B.
5025

Kabiel A. M.
3684

Kachru R.
3293, 3490, 3491, 3524, 3525,
3685, 3715, 3855, 4395

Kacprzyk M.
3492

Kadota K.
3710

Kafrouni H.
4393

Kaftandjian P. V.
4934

Kaftandjian V. P.
3314, 3454, 4235, 4385, 4386,
4516, 4519, 4641

Kaivola M.
3941, 4323

Kaliteevskii N. I.
3186, 4320

Kalkandjiev T. K.
4808

Kallne E.
3315, 3493, 3686, 4773

Kalman G.
4865, 4911

Kamke B.
4036

Kamke W.
4036

Kamla G. J.
4226

Kammermayer E.
4642

Kanorskii S. I.
4424, 4553, 4666, 4772

Kantor P. Ya.
4324, 4325, 4326, 4327, 4328,
4329

Kantserov A. I.
3311, 3486, 3678

Kapicka V.
3110, 4671

Karabourniotis D.
3157, 3970, 4037, 4038, 4330,
4331

Karabut E. K.
3494

Karamochi N.
3495

Karp A. H.
3184

Karras C.
4038, 4330, 4331

Kaspereit J.
4806

Kastner S. O.
3496, 5029

Kato I.
3185, 3497, 3856

Kato K.
4192

Kato T.
3651

Katriel J.
3857

Katulin V. A.
3619

Kauffman R. L.
4053, 4193, 4203, 4284, 4906

Kaulakis B. P.
3498

Kaulakys B.
3858

Kaulakys B. P.
4194

Kawaguchi H.
3859

Kazanskii A. K.
4667

Kazansky A. K.
4964, 5030

Kazantsev S. A.
3186

Keane C. J.
4912

Kearney R. J.
4764, 4765, 4766

Kearney W. R.
4809

Keil R.
3187

Kelleher D. E.
3096, 3316, 3463, 3549, 3687,
3730, 4061, 4355, 4496, 4732,
4733, 4913

Keller J. C.
3454

Kendall D. J. W.
4673

Kepple P. C.
3188, 3300, 3476, 3660, 3860,
3931, 4265, 4900, 4954

Kertanguy A. de
3317

Keshavamurthy R. S.
4599

Kesting V.
4701

Keto J. W.
3959, 4145

Kettlitz M.
4332, 4333

Key M. H.
3318, 3501

Khakhaev A.D.
4124

Khan T. P.
4600

Khanin Ya. I.
4126

Khashan M. A.
3319

Khelfaoui F.
4872, 4873, 4912

Khoury R.
4677

Khvostenko G. I.
4334

Khvostov A. N.
3979

Kichenassamy S.
3861

Kidravov F. Kh.
3586

Kielkopf J.
4862, 4950, 4951

Kielkopf J. F.
3320, 3321, 3499, 3500, 3688,
3689, 3786, 3862, 4039, 4040,
4335, 4861, 4994

Kilcrease D. P.
4999

Kilimann K.
3741, 4790, 4914

Kilkenny J.
3690

Kilkenny J. D.
3501, 4053, 4193, 4203, 4345,
4416

Kim J. J.
4605

Kim S. H.
3189

Kindt S.
3657

Kipper R.
4955

Kiriyama S. I.
3538

Kissami H.
4710

Kitade A.
4494

Kleiber P. D.
3800, 3863, 4336, 4601, 4611

Klein L.
3314, 3911, 4641

Kleinmann I.
3083

Klim A.
3691

Klimchitskaya G. L.
4993

Klimontovich Yu. L.
3692

Kogan V. I.
4603

Klimovskii I. I.
3251, 3693

Kolbe G.
3148, 3625, 4337

Klivadenko V. A.
4195

Koledin D.
3280

Kluge H. J.
3459

Koleva I.
3780

Klyucharev A. N.
3190

Kolwas M.
3178

Knauer J.
4824

Kon'kov A. A.
3322

Kneizys F. X.
3272

Kondo K.
3984

Knezevic V.
3214

Kondrateva V. A.
3979

Knollenberg R.
3689

Konjevic N.
3084, 3085, 3095, 3099, 3161,
3209, 3210, 3211, 3237, 3279,
3316, 3371, 3460, 3636, 3638,
3640, 3694, 3813, 3932, 3974,
4041, 4157, 4196, 4197, 4338,
4339, 4340, 4435, 4436, 4471,
4472, 4500, 4522, 4565, 4604,
4688, 4689, 4711, 4722, 4788,
4810, 4822, 4845, 4893, 4915,
4916, 4917, 5024, 5045

Knudtson J. T.
4602

Koaizawa H.
4230

Kobilarov R.
4690, 4711, 4810, 4915, 5002

Konjevic R.
4081, 4340, 4472, 4689, 4890,
4891, 4980

Kobzev G. A.
4569, 4679, 4875

Kock M.
3430

Kononov E. Ya.
3502

Koelman J. M. V. A.
4647

Koo J. Y.
4605

Koenig M.
4137, 4214, 4270, 4348, 4470,
4491, 4712, 4713

Koppel L. N.
3243

Koptev Yu. V.
4133

Korving J.
4407

Kosasa K.
3353

Koshelev K. N.
3502, 4714

Kotlikov E. I.
3789

Kotlikov E. N.
3102, 3323, 3864, 3979, 4341,
4473

Kötteritzsch M.
5038

Kotylev V. N.
3924, 4247

Kovarskii V. A.
4628

Kozyrev A. A.
3191

Krametz E.
4278, 4429

Kramida A. E.
3676

Krause D. Jr.
4706, 4992

Krause L.
3933, 4523

Kravchenko V. F.
3494

Krebs D. J.
3865, 3866

Kretzas D.
3192

Kreye W. C.
3867, 4042, 4994

Krikorian R.
3861

Krishnamurty G.
4831, 5040

Kroll R.
4825

Kroop V.
3503, 3606

Krsljanin V.
4290, 4399, 4401, 4437, 4811,
4812, 4813, 4814

Krueger D. A.
4918

Kruger R. A.
3645

Krylov P. S.
4403

Kryszewski S.
4995

Kryukov N. A.
3695, 4497

Kuchinskii V. V.
3129, 3130, 3244, 3285, 3429

Kuchta E.
4918

Kudrya V. P.
4043

Kudryavtsev A. A.
3868

Kühl T.
3459, 4163

Kuznetsov S. V.
4474

Kuik P.
4523

Labastie P.
3870

Kulander K. C.
4044

Labat J.
3084, 3098, 4630, 4736, 4737,
4738, 4741, 4889, 4890, 4891,
4892, 4919, 4933, 4979, 4980,
4981, 4982, 5011, 5033, 5034,
5035

Kulyasov V. N.
3924, 4128, 4398, 4539, 4646

Labat J. M.
4996

Kunasz P.
3787

Labat O.
3735, 4687, 4919, 4979, 4996

Kunski R.
3921, 3922

Labuhn F.
3155

Kunze H. J.
3421, 3467, 3480, 3696, 4066,
4695, 4794

Labuz S.
4362, 4489, 4730

Kunze H.-J.
4554, 4617, 4669, 4905, 5005

Labzovskii L. N.
4045

Kuo C.-Y.
3959

Lado F.
4475, 4606

Kuramochi N.
3118, 3193, 3324

Lakicevic I. S.
3212, 3326, 3379, 3380, 3553,
3698, 3699, 3735, 3736, 3737,
3871, 3893, 4046, 4047, 4048,
4049, 4054, 4083, 4084, 4223,
4224, 4342, 4372

Kurbatov A. L.
4646

Lakshmi P. A.
4544

Kurilenkov Yu. K.
3504, 3697, 4868

Laloë F.
3369

Kurochka L. N.
3086, 3325

Lam J. F.
3907

Kusch H. J.
3216, 3386, 3387, 3400, 3869

Kutznetsov M. N.
4198

Lambert D.
3505, 4050, 4343

Laming J. M.
4607

Lancaster H. L.
4735

Landen O. L.
4344, 4345, 4346

Landers F. J.
4501

Lane A. M.
4815

Lane R. G.
4608

Lange W. K. H.
3545

Lanz T.
4715

Laporte P.
3327, 3328, 4051

Larenz R. W.
4052

Larkins P. L.
4199, 4347, 4716

Larour J.
4381

Larour J. B.
4866

Larson B.
4997

Larson G. F.
3329

Lasnitschka G.
4651, 4668

Lassale J.
3647

Latipov R. Z.
4508, 4633

Latush E. L.
4133

Lau A. M. F.
4476, 4609

Lavi S.
4241

Law J.
4200, 4201

Lawler J. E.
3297, 3330, 3700

Lawrenz J.
4011, 4754

Lax B.
3360, 3541

Lazarenko A. V.
3190

Lazarus E.
3423

Lazovskaya V. R.
3331

Le Gall P.
4166

Le Gouët J. L.
3194

Le Toulouzan J. N.
3701

Lebedev V. S.
4610

Lekhtho G. F.
4320, 4321

Lebedeva V. V.
4202

Lemaire J. L.
4351, 4477, 4478

Leboucher E.
3506, 3528, 3702, 3719, 3884,
4348, 4562, 4563, 4670

Lemaire P.
4479, 4910

Lebowitz J. L.
4031, 4127, 4186, 4318, 4949

Lemoine D.
4718

Lebrun J. L.
4225, 4722, 4920

Lempert W. R.
4574

Leclair J.
3388

Leneva A. E.
3091

Lecler D.
3788

Lennuier R.
3890

Lecourt A.
3458

Lesage A.
3214, 3522, 3753, 3879, 4054,
4086, 4225, 4358, 4722, 4816,
4920, 5010

Lednev M. G.
4852

Letzring S.
3423

Lee C. M.
3423

Leung K. P.
3715, 3874

Lee R. W.
3268, 3332, 3333, 3334, 3335,
3336, 3501, 3507, 3690, 3703,
3799, 3872, 3873, 3957, 4053,
4187, 4193, 4203, 4204, 4284,
4317, 4344, 4345, 4349, 4350,
4717, 4912

Levesque D.
4127, 4949

Lee S. A.
3337, 4323

Levin L. A.
3115

Leegwater J. A.
4625

Levine M. A.
3198, 3563

Leeuw A. de
4021

Levinson C.
4190

Levoshkin A. V.
4512, 4513

Levy B.
3271, 4430, 4676, 4932, 5016

Lewis E. L.
3117, 3144, 3449, 3508, 3656,
3704, 3826, 4055, 4056, 4057,
4175, 4361, 4383, 4458, 4485,
4514, 4589, 4614, 4654, 4729

Lewis J. T.
4445

Lewis L. L.
3677, 3851

Leycuras Y.
4352

Li E.
4139

Li L.
4353

Li Q. -R
4760

Li Y. H.
4918

Liao P. F.
3258, 3338, 3509

Liberman S.
4058

Lilenfeld H. V.
3339

Lin C. L.
3340

Lin J.
4855

Lindberg M.
4384

Lindblom P.
4180

Lindsay A. C.
4817, 4998

Lindsay J. M.
3347

Linnebur E. J.
3476

Lins G. A. W.
3421

Liran J.
3115, 4241

Lisicki E.
3140, 3341, 3510, 3511, 3512,
3616, 3617, 3705, 3875, 3876,
4059, 4205, 4276, 4354, 4551,
4570, 4571, 4692, 4789

Lisitsa V. S.
3091, 3342, 3602, 4603, 4818,
4863

List E.
3513

Little R.
4577

Liu J. R.
4416

Liu W. K.
3514

Ljublin B. V.
4060, 4719, 4851

Llewellyn E. J.
4673

Lobb W. S.
4720

Locquet J. J.
3701

Lokner V.
3515, 4113

Lombardi G. G.
4061, 4355

Lorenzen C.-J.
4105

Loudon R.
3784

Louis-Jacquet M.
4050, 4343

Lovett R. J.
3116, 3516, 4482, 4560, 4677,
4678

Lowe R. P.
3351

Lozingot J.
3391, 3465, 3559, 3560, 3644

Luiten O. J.
4647

Luizova L. A.
3706

Lukaszewski M.
4062, 4063, 4064

Lunney J. G.
3318, 3501

Lwin N.
3117, 3195, 3839

Lyublin B. V.
3952, 4418, 4819

Lyyra A. M.
4336, 4611

MacGowan D.
4031, 4318

Mackinnon D. J.
4322

Madej J.
3996, 4305, 4587, 4820, 4921

Maeda M.
4705

Maigorov S. A.
3619, 4721

Majdi Y.
4144

Makdisi Y.
4869

Makhrov V. A.
4256

Maldelbaum D.
3900

Malesevic M.
4787

Malikov R. F.
3707

Malnoul't P.
4712

Malvern A.
3156

Malvern A. R.
3517

Malvezzi A. M.
3200, 3343

Malyshev V. A.
3707

Malyugin A. V.
3101

Marinkovic M.
5006

Manassah J. T.
4792

Markman D. L.
3995

Mancini R. C.
4612, 4906, 4922, 4999, 5026

Marmolino C.
4584

Mandelbaum D.
3964, 4032, 4799

Marshall T. C.
3472

Mangeot B.
3837

Martin G. A.
3172

Mann C. K.
4821

Martin P.
3708, 3732

Manners J.
4161, 4162, 4480

Maruyama Y.
3353

Manning T. J.
4923, 5000

Masaki T.
4725, 4805

Manola S.
4086, 4225, 4722

Maslennikova L. B.
3086

Maquet A.
3877, 3942

Maslov V. A.
4164

Mar S.
3344, 3990, 4242, 4313, 4481,
4797, 4926, 5007, 5008

Masnou-Seeuws F.
3364, 3633, 3634, 3709, 3971

Marangos J. P.
4136, 4723

Matera M.
4965, 5037

Marasinghe P. A. B.
4482

Mathys G.
4065, 4206, 4207, 4208, 4356,
4357, 4924

Marchenko V. S.
4610, 4724

Matisov B. G.
3104, 3105, 3106, 3253, 3254,
3995

Margerie J.
3585, 3926

Matsuda I.
3118, 3193, 3324, 3495

Marié E.
3232, 3757

Matsunaga K.
3710

Matsuoka H.
4131, 4132, 4266, 4542, 4543

Matthews D. L.
3482, 3703, 4053, 4193, 4203

Matthias E.
3657, 4700, 5018

Mattioli M.
3441, 3620

Matveev V. S.
3711

Maulat C.
4298

Maurmann S.
4066, 4695

May R. D.
4726

Mayer G.
3518

Mazighi R.
4422

Mazing M. A
3519

Mazure A.
3196, 3345, 3520, 3653, 3878,
4102, 4209

Mazzoni M.
5037

McCartan D. G.
3117, 3195, 3839, 4720

McClain S. C.
4595

McCown A.
3717

McCrory R.
3423

McCrory R. L.
3592

McDade I. C.
4673

McDowell C. A.
3542

McFarlane R. A.
3907

McGinley J. V. M.
3627, 3807

McHugh D.
4175

McHugh D. R.
4458, 4514, 4589, 4654

McLaren J. W.
4210

McMahon D. R. A.
3712

McNeil J. R.
3346

McNeill D. H.
4067

Measures R. M.
4148, 4559

Meckler A.
4695

Meier R. R.
3713

Meijer H. A. J.
3920

Mijatovic Z.
4613, 4626, 4690, 5001, 5002

Meisel G.
3489

Mijovic S.
4822

Mejaski-Tonejc A.
3087

Mikhalevskii V. S.
3494

Melik-Pashaev D. A.
4769

Miklaszewski W.
4874

Mendez A.
3964

Miles R. B.
3781

Menzel N.
3308

Miller B. J.
3172

Mergault P.
3758

Miller E. A.
4638

Mermet J. M.
3605, 3714, 4210

Miller M. H.
3347, 3348, 3521, 3522, 3753,
3879, 4086, 4358, 4816

Metcalf H.
3910

Miller T. A.
3360, 3541, 5036

Metzke E.
4017, 4181

Millie Ph.
3271

Meyer W.
4213

Milone A. A. E.
4727

Meystre P.
4367

Milone L. A.
4727

Michelis C. de
3620

Milonni P. W.
4823

Mies F. H.
4191, 4469, 4483

Milosavljevic M.
4687, 4787

Mihajlov A. A.
4566, 4783, 4784

Milosevic S.
3796, 3822, 3925, 4109

Mihalas D.
4564

Minaev P. V.
3693

Minguzzi P.
4359, 4427, 4484

Molander W.
4750

Miron E.
4241

Monju M.
3754

Mironov A. V.
4728

Montaser A.
3880, 4776

Mirza M. Y.
3146, 3798

Monteiro T. S.
4361, 4383, 4485, 4614, 4729

Mishin I. V.
4925

Moos H. W.
4664

Misyunas A. A.
3119, 3120, 3121

Moreno F.
4211

Mitchell K. B.
3476

Moreno J. C.
4824, 4901, 4908, 4988, 5039

Mitev V. M.
3349

Moreno J. M.
3344

Miyake S.
4131, 4132, 4266, 4542, 4543

Morgan F. J.
3351

Mizui J.
3651

Morgan W. L.
4350

Mizuike A.
3859

Morozov A. V.
3251, 3693

Mizuta Y.
3523

Morris C. E.
4615

Mnatsakanyan A. Kh.
3597, 4360

Moshary F.
4534

Möbius E.
3350

Mossberg T.
3293

Moffatt D. J.
4147

Mossberg T. W.
3170, 3490, 3491, 3524, 3525,
3685, 3715, 3795, 3855, 3874

Mokhov A. V.
4324

Moussounda P. S.
4486, 4616

Movre M.
3190, 3233, 3356, 3515, 3526,
3583, 3584, 3755, 3796, 3797,
4140

Movsesyan M. E.
4487

Moynault J. M.
3537

Mueller M. M.
3476

Mukaiyama T.
3423

Mukamel S.
3738, 3881, 3882, 3894

Mullamphy D. F. T.
5003

Muller C.
4212

Müller W.
4213

Mulligan F. J.
4488

Mungo A. J.
3759

Muradov V. G.
3241

Murakawa K.
3094, 3197, 4068

Muraoka K.
4705

Murthy S.
4706

Musielok J.
3113, 3122, 3716, 3937, 4255,
4457, 4554, 4617

Musiol K.
4033, 4362, 4489, 4730

Mwana Umbella I. S. K.
4220

Myers B. R.
3198, 3563

Myint H.
3352

N'Dollo M.
4443, 4618

Nadkhin A. I.
3958, 4840

Nakajima S.
3353

Nakajima T.
4192

Nakamura K.
3672

Nakazawa T.
3845

Nam C. H.
4619

Namioka T.
5043

Naqvi A. S.
4363, 4364, 4490

Narumi H.
3594, 3778, 4123

Nash D. L.
3759

Nasr F. I.
3684

Naveedullah K.
4363, 4364, 4490, 4620

Nayfeh M. H.
3199, 3717, 3827

Nee T.-J. A.
4621

Nefedev L. A.
3883

Neger T.
4365, 4622

Nesterov M.
3140

Neufeld C. R.
3354

Neumann D. K.
4069

Neureiter C.
4757

Nez F.
4963

Nguyen D. H.
3413

Nguyen Hoe
3506, 3527, 3528, 3718, 3719,
3884, 4137, 4214, 4270, 4348,
4470, 4491, 4546, 4562, 4563,
4670, 4712, 4713, 4867

Nick K. P.
3621, 3667, 4012, 4366

Nick K.-P.
4377, 4459, 4492

Nickolov J. B.
4808

Nicol J. L.
4817, 4937, 4998

Nicolosi P.
3200, 3343, 3355, 3720, 3853,
4095

Niemax K.
3356, 3418, 3419, 3529, 3885,
3929, 3930, 4011, 4036, 4070,
4105, 4116, 4231, 4232, 4245,
4754

Nienhuis G.
3201, 3202, 3230, 3270, 3357,
3530, 3531, 3532, 3721, 3886,
3903, 4071, 4072, 4228, 4267,
4378, 4509, 4995

Niepraschk R.
4181

Nieuwesteeg K. J.
4073, 4623, 4624, 4625, 4731

Nightingale M. P. S.
4074

Nigmatullin R. R.
5004

Nikitin V. V.
3783

Nikoghossian A.
3861

Ninoyan Zh. O.
4215

Niple E.
3358

Nishimura Y.
4299

Noll R. J.
3533

Nollez G.
3196, 3345, 3520, 3653, 3828,
3878, 3993, 4102, 4209

Nordgren J.
4135

Norkunas V. K.
3119

North P.
4825

Nosach V. Yu.
3619

Nota M.
4969

Novikov V. G.
4568

Nowak S.
4826

Nubbemeyer H.
3534

Nurmatov E. M.
4467

Nussenzweig H. M.
3158

Nyman E. M.
4180

O'Brien D. P.
4367

O'Callaghan M. J.
4368, 4827, 4828

O'Connell R. F.
4445

O'Leary S. V.
3823

O'Mara B. J.
3203, 4493, 4953

O'Neill J. A.
3535, 3536

Obbarius H. U.
3245

Occelli R.
3537

Oda T.
3538

Odintsov A. I.
4202

Ohman Y.
4075

Okada K.
4494.

Okasaka R.
3123

Oks E. A.
3125, 3985, 3987, 4216, 4300,
4495, 4694, 4762, 4793, 5005

Olesik J. W.
4829

Olson M. L.
3474, 3539

Omenetto N.
3540

Omont A.
3089, 3092

Oreg J.
4241

Orihara S.
3180

Orlov A. V.
3923

Oshida T.
3389

Oshio Y.
3859

Osipova E. A.
4146

Osterheld A. L.
4912

Osterhold M.
4830, 4834

Ostryakov V. M.
3434

Otieno A. V
3204

Ottersbach G.
4052

Oura N.
3324, 3495

Ovakimyan T. O.
4487

Ovsiannikov V. D.
3722

Oxenius J.
3968, 4022, 4023, 4594

Oza D. H.
4496, 4732, 4733, 4734, 4831,
4913, 4942

Padmanabhan S.
5040

Pal R.
3205, 3359, 4076

Palmer B. A.
3983, 4297, 4923, 5000

Palomares F.
4683

Pan Y. L.
3243

Pankonin V.
4233

Pankratov P. M.
4569, 4679, 4875

Panock R.
3360, 3541

Pantelic D.
4822

Papchenko A. A.
4666, 4772

Pargamanik L. E.
3206, 3723, 3887, 3888, 3889,
4217

Park C.
3374

Park H. J.
4595

Parsons M. L.
3116, 3516

Parthasarathi V.
3542

Pascale J.
3093, 4402

Patch R. W.
3361

Patil S. H.
3724

Peck S. K.
4561

Paul E.
3275, 3362

Pelayo J.
3107

Paulin P.
3922

Pellissier J. L.
3458

Pavlov E.
3250

Penkin N. P.
3425, 3695, 4324, 4325, 4326,
4327, 4328, 4411, 4497

Pavlov L. I.
3349

Perchuk O. V.
4341, 4473

Pavlov M.
4613, 4626, 4627, 5001, 5002

Peregudov G. V.
3619, 3676

Pavlov S. V.
3285

Perel'man N. F.
3543, 4628

Pavlov Yu. V.
4993

Pérez C.
4926, 5007, 5008

Pavlovic M. S.
5006

Perez J. D.
3544

Pavlovic N. Z.
5006

Perrin D.
3727, 3890

Pavlovskaya N. A.
4853, 4946, 4947

Perrot F.
4369, 4433, 4927

Payne G. L.
3544

Perry B.
3423

Payne M. G.
3199, 3363, 4575, 4896

Pert G. J.
3455, 3456

Peach G.
3725, 3726, 4218, 4540, 4886,
5003

Pestov E. G.
4219

Peacock N. J.
3124, 3222

Petite G.
3545

Pease D. C.
3950, 4077

Petrashen A. G.
3891

Petrov V. P.
4808

Petrov. A. L.
3619

Petrukhin E. A.
3595

Pettersson L.
4135

Petzold H. C.
3207

Pfenning H.
4220

Phelps A. V.
3824

Philippe M.
3364

Phillips H. A.
4735

Phillips W. D.
3767, 3768

Picart J.
4246, 4593, 4672

Pichler G.
3208, 3233, 3356, 3381, 3526,
3583, 3584, 3728, 3761, 3796,
3822, 3925, 4109, 4110, 4596

Pickett H. M.
3546, 3547

Piel A.
3350, 3365, 3366, 3548, 3729,
4078, 4079, 4221, 4374, 4412,
4948

Pignolet P.
3367, 3820, 3980, 4460, 4461,
4498, 4590, 4702

Pikuz S. A.
3265, 3619

Pilon P. J.
3368

Pinard J.
4058

Pinard M.
3369, 3892

Pinder A. C.
3517

Pinnekamp F.
3365, 3370, 3548

Pipkin F. M.
3412

Pires A.
3533

Pittman T.
4339

Pittman T. L.
3549, 3730, 4080, 4471, 4499,
4500, 4604

Plain A.
4928

Platisa M.
3085, 3209, 3210, 3211, 3371,
4081, 4340, 4631, 4687, 4689,
4736, 4737, 4738, 4740, 4889,
4890, 4891, 4933, 4979, 4981,
5011, 5033, 5034

Playford C. St. Q.
3148, 3443, 3625

Plomdeur P.
3828, 3993

Plon J.
4963

Poisel H.
4501

Pokrzywka B.
4362, 4730

Pollock E. L.
4370, 4517

Polrzywka B.
4489

Polushkin I. N.
4126

Ponomarev Ya. I.
4286

Popov A. K.
3550

Popov K. G.
3372, 3373, 3551

Popov V. I.
4261

Popovic L.
4980

Popovic M.
3210, 3371, 4822

Popovic M. M.
4566, 4756, 4785

Popovic M. V.
3211, 4711, 4810

Popovic S.
3095

Popovics C.
4134

Poquerusse A.
4562, 4563, 4670

Pospieszny J.
4870

Post H. A.
4502, 4503

Pouilly B.
4718, 5009

Poulsen O.
4323

Prakash S. G.
3374

Pratesi R.
5037

Pratt R. H.
5014

Preobrazhenskii N. G.
3375, 3376, 3377, 3552, 4674

Preppernau B. L.
5036

Price D. C.
3731

Prigent P.
4294

Prilipko V. K.
3596

Pritchard D. E.
3588, 3767, 3768, 4082, 4250

Privalov V. E.
4403

Proctor T. R.
3239

Profeti S.
4484

Protasevich E. T.
4680

Prud'homme M.
4660

Prunelé E. de
3674

Puerta J.
3708, 3732

Puetter R. C.
3733

Pujol G.
3378

Purcell S. T.
4222

Puric J.
3098, 3212, 3213, 3214, 3326,
3379, 3380, 3522, 3553, 3698,
3699, 3734, 3735, 3736, 3737,
3871, 3893, 4047, 4048, 4049,
4054, 4083, 4084, 4223, 4224,
4371, 4372, 4629, 4630, 4631,
4687, 4736, 4737, 4738, 4739,
4740, 4741, 4787, 4889, 4890,
4891, 4919, 4933, 4979, 4996,
5010, 5011, 5034

Putlitz G. zu
4373

Qian J.
4653

Quattropiani A.
3944

Rabin Y.
3738, 3894, 3895

Rabinovitch A.
3649

Rabitz H.
3607, 4752

Radmore P. M.
3650

Radovanov S. B.
4966

Radtke R.
4332, 4333, 4504, 4505

Raggett D. St. J.
3746

Raimond J. M.
3739

Raja Sekhar B. N.
5040

Rajan M. S.
4085

RajaRao P. M.
5040

Rakotoarijimy D.
3994

Rakowitz J.
3250

Ramadan A. G.
3945

Ramette J.
3163, 3164, 3283, 3284, 3620

Rang L. Q.
3740, 4506

Ranson P.
3468, 4486, 4616

Rao B. K.
3896

Rao P. M. R.
4831

Rarig P. L.
3577

Rathore B. A.
4048, 4054, 4083, 4223, 4224,
4629

Ratkevich V. K.
4418

Rautian S. G.
3554, 3897

Raymer M. G.
3381

Raymond T. D.
3959, 4145

Razumov V. A.
3483

Rebane T. K.
3891

Rebane V. N.
3215, 3382, 3383, 3891

Rebentrost F.
3895, 4044

Rebhan U.
4118

Rebolledo M. A.
4171

Redko T. P.
3695, 4497

Rees D. E.
4749

Reibold R.
3555, 3665, 3841, 4009, 4010

Rethmatulla M. I.
4490

Reyna Almandos J.
4682, 4781

Reynaud S.
3153, 3384, 3898

Ricard A.
4547

Richards A. G.
3336

Richards L. M.
3243

Richards M. A.
4615

Richardson M. C.
4284, 4906

Richardson R. J.
3339

Richou J.
3753, 4086, 4225, 4722, 4920

Richter H.
3366, 4078, 4079, 4374

Ridard J.
3271

Riis E.
4323

Rish O. M.
3186

Rizzo J.
3423

Robbe J. M.
4718

Ron A.
4229, 4390

Robert D.
3143

Röndigs G.
3216, 3386, 3387

Roberti G.
4584

Roney W.
3618

Röche-Hansen J.
4632

Röpke G.
3741, 4464, 4704, 4832, 4989

Rodin N. V.
4646

Rosado R. J.
3388

Roesler F. L.
4042

Rosenbluh M.
3360, 3541

Rogers F. J.
3957, 4375

Rosenfeld Y.
4833

Rogers G. L.
5012

Rosinski K.
4746

Rogoff G. L.
3556

Rostas F.
3401, 3633, 3634, 3971, 4351,
4477, 4478

Rohatgi V. K.
4035

Rottler L.
4000

Rohde V.
4806

Roueff E.
3401, 3748, 3899, 4088

Röhe-Hansen J.
4087, 5041

Rous J.
4381

Roig J.
3647

Roussel-Dupré D.
4089

Roig R. A.
3348

Rout R. K.
4831

Romanenko E. V.
3794

Rovera G.
3613

Romanov G. S.
3385

Rowan W. L.
4421

Royer A.
3217, 3557, 4090, 4091

Rozsa K.
4735

Rozsnyai B. F.
3218, 4092, 4581

Rudavets A. G.
3554

Ruffert M.
4834

Rukavina J.
3584

Rumsby P. T.
3318

Russo A. L.
3145

Ruzov V. P.
3372, 3373, 3551

Ryabtsev A. N.
4507

Rybko L. B.
3325

Safinya K. A.
3558, 3652

Safronova U. I.
3502

Sahal-Bréchet S.
3637, 3815, 3816, 3817, 3973,
3976, 3977, 3978, 4156, 4158,
4287, 4291, 4292, 4438, 4567,
4786, 4881, 4882, 4883, 4885,
4887, 4971, 4973, 4974, 4975,
4976, 4977, 4978, 5013, 5031,
5032

Sakharov V. B.
3176

Sakurai T.
3389, 4909

Salakhov M. Kh.
3646, 3742, 4093, 4376, 4508,
4576, 4579, 4633, 4743, 4835,
5004

Salganik Yu. A.
3372

Salour M. M.
3545

Salpeter E. W.
3082

Salter J. M.
3704

Salzmann D.
5014

Sanchez A.
3900, 3964, 4032, 4634, 4799

Sanchez-Soto L. L.
4767, 4768

Sandeman R. J.
3246

Sandle W.
4639

Sandner W.
3652

Sando K. M.
3464, 4094, 4296, 4336, 4601,
4611, 4742, 4809

Santi D.
4095

Sapondzhyan S. O.
4215

Sarandaev E. V.
3646, 3742, 4376, 4508, 4633,
4743, 4835

Sarandayev E. V.
4093

Saraswathy P.
4831

Sargent III M.
4428

Sarkisyan G. S.
4215

Sasso A.
4744

Sato M.
3219

Sato Y.
5020, 5021, 5022, 5043

Sattarov I.
3220

Sautenkov V. V.
3783

Sauthoff N.
3618

Sauthoff N. R.
3264

Savard J. Y.
3921

Savary P.
3701

Savinov S. Yu.
4096

Savukynas A. J.
3390

Savushkin A. F.
3595

Saxena R.
3901

Sayer B.
3391, 3465, 3559, 3560, 3644,
3751, 3762, 3763, 3832, 3902,
4173, 4402, 4441, 4442

Schade W.
4377

Schäfer J. H.
4278, 4429

Schäfer R.
4103, 4391

Scharmann A.
3475, 4651

Schatzman E.
3392

Schawlow A. L.
3297, 3330

Scheerer L. D.
3865, 3866

Scheeline A.
4226

Scheibner H.
4138

Schilling M.
4115

Schlejen J.
4407, 4635

Schlessinger L.
3743

Scott R. H.
3097

Schlüter H.
4830, 4834

Seaton M. J.
4636, 4745, 4838, 4929

Schmidt D.
3657

Sebyakin Yu. N.
4285, 4286, 4681, 4854

Schöning T.
4836, 4837

Sedel'nikov A. I.
3376, 3377, 3552

Schram D. C.
3388, 4826

Sedelnikov A. I.
3375

Schröder K.
3869

Seely J. F.
4619

Schuessler H. A.
3459

Segal D.
4839

Schüller D.
4278

Segre E. R. A.
3765

Schuller F.
3202, 3270, 3357, 3532, 3903,
4227, 4228, 4378, 4509

Seidel J.
3394, 3562, 3744, 3904, 4097,
4379, 4510, 4511, 4698

Schulz-Gulde E.
3245

Seifert T.
3741, 4464

Schulze H.
4802

Selezneva L. A.
3251

Schumann L. W.
3590

Sem M. F.
4133

Schwamb D. H.
3393, 3561

Semin P. S.
3291, 3646, 3742

Scoarnec L.
3157

Senkov N. V.
3783

Scofield J.
3703

Severino G.
4584, 4952

Scott A. M.
3455, 3456

Shabaev V. M.
5015

Shabanova L. N.
3425, 3936, 4324, 4325, 4326,
4327, 4328, 4329, 4411, 4512,
4513, 4930

Shalaev V. M.
3550

Shalagin A. M.
3554

Shalitin D.
4229, 4390

Shalom A.
3690

Shannon I.
4175, 4458, 4514, 4589, 4654

Shapiro D. A.
3398, 3897

Shaver P. A.
3395

Shaw J. H.
3340, 3358

Shaw R. S.
3563

Shcherbakova N. K.
5004

Shchipakov V. A.
4863

She C. Y.
4918

Shea R. F.
4069

Shefer R. E.
3396

Sheremeteva T. A.
3905

Shevel'ko A. P.
3519

Shikov V. K.
4360

Shilov K. A.
3619

Shimizu M.
3123

Shimizu T.
3185

Shimoda K.
3408

Shimokoshi K.
4034

Shindo H.
3397, 3564

Shiomi N.
3118

Shirai H.
4230

Shmavonyan S. V.
4487

Shoaeb A. M.
3684

Sholin G. V.
3431, 3662, 4456, 4603

Shubin M. V.
4646

Shuker R.
4582

Shul'ga A. G.
4202

Shyam A.
4831

Siddiqui A.
4931

Sidel'nikov Yu. V.
3502

Siegel A.
3700

Siegling F.
4231, 4232

Sienkiewicz J.
4151, 4152, 4380

Silver E.
3618

Silver J. D.
4607

Simard P. A.
3906

Simonneau E.
4022, 4023

Singer S. J.
4483

Singh S.
4763

Sirko L.
4746

Sivkov V. N.
3372

Skarsgard H. M.
3242, 3426

Skobelev I. Yu.
3619

Skowronek M.
4381, 4649, 4650, 4755, 4756

Skrebov V. N.
3868

Skupsky S.
3423, 3565, 3592

Slemzin V. A.
3519

Slivinsky V. W.
3243

Slupek J.
4221

Smirnov G. I.
3398, 3897

Smirnov G. T.
4233, 4382

Smirnov V. G.
4418

Smith C. C.
3221, 3222

Smith E. W.
3092, 3154, 3446, 3745, 3805,
4234, 4235, 4236, 4237, 4385

Smith G.
3535, 3536, 3746, 4383, 4637,
4747

Smith S. R.
3561

Smulders P. J. M.
4515

Snow W. L.
3168

Sobel'man I. I.
3410, 3747, 4424, 4666, 4772

Sokolov A. S.
3399

Sokolov I. M.
3434, 3793, 3946, 3947

Solin O.
4180

Solnyshkov D. A.
4418

Soltwisch H.
3400

Solyanikova V. A.
3223

Sonobe O.
5020, 5043

Sorochenko R. L.
4233

Sorokin V. N.
4424, 4666, 4772

Sotnichenko S. A.
3958, 4840

Sotome H.
5021, 5022

Soures J.
3423

Soures J. M.
3592

Sowa L.
3306, 4020

Spanke R.
4332, 4333, 4505

Spektorov V. L.
3303

Spiegelmann F.
4098, 4486

Spielfiedel A.
3401, 3588, 3748, 3767, 3768,
3899, 4088, 4842, 4932, 5016

Squire W.
3566

Sreckovic A.
4630, 4631, 4687, 4736, 4737,
4738, 4739, 4740, 4741, 4787,
4889, 4890, 4891, 4892, 4919,
4933, 4979, 4980, 4981, 4982,
4996, 5011, 5033, 5034, 5035

Srivastava H. M.
4638

Stacey D. N.
3224, 3247, 3517, 4099, 4817,
4998

Stahlberg B.
3567, 4384

Stamenov K. V.
3349

Stamm R.
3402, 3766, 3904, 4100, 4234,
4235, 4236, 4237, 4238, 4385,
4386, 4516, 4517, 4519, 4558,
4641, 4675, 4872, 4873, 4912,
4934

Stanton A. C.
4101

Starostin A. N.
4256, 4863

Stastny F.
4277, 4556, 4671

Steckner M.
4293

Steel D.
3423

Steel D. G.
3907

Stefanel A.
4658

Stefanov B.
3923

Stefanovic I.
5024

Stehlé C.
4102, 4239, 4240, 4387, 4388,
4389, 4518, 4748, 4841, 4935,
4936, 5017

Stein J.
4229, 4390, 5014

Steinfeld J. I.
3648

Steinwandel J.
3568

Stepanov K. I.
3385

Stephenson G.
3650

Stewart B.
4250

Stodiek W.
3264, 3618

Stoicheff B. P.
3403, 3569, 3749, 4642, 4643

Stoner R.
4561

Stoof H. T. C.
4647, 5042

Stormberg H. P.
3570, 4103

Stormberg H.-P.
4391

Stotskii G. I.
3225

Stout II R.E.
4204

Strauss M.
4241

Streater A.
4420, 4639, 4749, 4750

Streeter T. J.
3955

Stroke H. H.
3384

Struk I. I.
4424, 4666, 4772

Strumia F.
3613, 4272

Stul'pinene N. A.
3119, 3120, 3121

Stulpinene N.
3571

Stwalley W. C.
3238, 3239, 3240, 3777, 4336

Su J. F.
4937

Subtil J. L.
4051

Suckewer S.
4619

Suemitsu H.
4938

Sugie T.
3404

Sukhin S. A.
3692

Sullivan D. E.
3988, 4169

Sultan G.
4547

Sulzmann K. G. P.
4104

Sun J. N.-P.
3474

Sun J.-Q.
4939, 5018

Sung T. W.
4706

Supronowicz J.
3933

Suter L. J.
4912

Sutton D. G.
4602

Sutton K.
3226

Suvorov A. E.
4640, 4674

Svanberg S.
4190

Syrkin M. I.
3385, 3750

Szebesta D.
4654

Szudy J.
3227, 3228, 3229, 3260, 3341,
3438, 3511, 3512, 3572, 3615,
3705, 3751, 3762, 3763, 3832,
3875, 3876, 3908, 4059, 4173,
4205, 4276, 4354, 4423, 4532,
4551, 4570, 4571, 4652, 4870,
4961, 4962

Tabei K.
4230

Tabisz G. C.
4984

Tachibana K.
3663, 3754, 3838, 3909, 4004,
4005, 4006, 4588

Taiqian D.
3910

Takemoto Y.
4938

Taleb A.
4058

Talin B.
3314, 3745, 3911, 4235, 4236,
4238, 4385, 4386, 4516, 4517,
4519, 4558, 4641, 4675, 4872,
4873, 4912, 4934

Tallents G. J.
3573, 3912, 4773

Tan T. H.
3476

Tanaka K.
3389

Tang K. T.
4940

Tanigawa M.
3984

Tanner C. E.
4751

Taran M. D.
4256, 4863

Tarrini O.
3962, 4427

Taylor P. R.
4520

Tchang-Brillet W.-Ü. L.
4842

Tenenbaum J.
4241

Terpugova N. S.
3191

Terray L.
4348, 4470

Terry J. L.
4664

Terskikh A. O.
4856

Terzic M.
4627

Tetu M.
3413, 3921, 3922

Thieberger R.
3649

Thiessen D.
4997

Thoma P.
3137

Thomann P.
3574

Thompson D. C.
3749, 4642, 4643

Thompson R. C.
3224, 3247, 3517, 3913, 4099

Thompson R. E.
3577

Thomsen C.
5019

Thomson J. J.
3243

Thorsos E.
3423

Tiesinga E.
5042

Tighe W.
4619

Tilgner J.
4120

Timmermans C. J.
4138

Tino G. M.
4744

Tipping R. H.
3809

Tischer H.
3822

Titov E. A.
3601

Titov Ye. A.
3249

Tkachev A. N.
4537, 4721

Toader E. I.
3405

Toi K.
3672

Tokarev V. I.
3323, 3864, 3979

Tondello G.
3200, 3343, 3355, 3853

Tonelli M.
4427, 4484

Tong W. G.
4644

Toptyghin I. N.
3252

Toptygin I. N.
3105, 3106

Toptygina G. I.
3575

Torres F.
4242, 4303, 4304, 4313, 4448,
4449, 4521

Torres Y. F.
4450, 4451

Toschek P. E.
3187, 3614

Tran Minh N.
3317, 3411, 3576, 3757, 4106,
4246, 4593, 4672

Tran N. H.
4395

Trassy C.
3714

Trawinski R. S.
4870, 4961, 4962

Treanor C. E.
3145

Trifonov E. D.
3707

Trippenbach M.
4984

Trukhacheva V. A.
3706

Truong-Bach
3406, 3752, 3753, 3819, 3914,
4439, 4440

Tsakiris G. D.
3836

Tserepi A. D.
5036

Tskhai N. S.
3407

Tskhai S. N.
4096

Tsoi V. I.
3915

Tsukakoshi M.
3408

Tsukuda K.
4319

Tuganov V. F.
4243

Tumakaev G. K.
3331

Tumarkin Ya. N.
4146

Turner J. E.
3363

Turski L. A.
4283

Twitty J. T.
3577

Uchida K.
4909

Uchino K.
4705

Ueda K.
3295, 3578, 3825, 3916, 3917,
3918, 3919, 4244, 4392, 5020,
5021, 5022, 5043

Uhlenbusch J.
4278, 4429, 4843, 4941

Ullah K. N.
4844

Ulm G.
4163

Unnikrishnan K.
4942, 4967, 5023

Urakawa H.
4314

Urano Y.
3663, 3754, 3838, 3909, 4004,
4005, 4006, 4588

Urinson A. S.
3923

Uzelac N. I.
4522, 4845, 4916, 5024

Vacquie S.
4393

Vadla C.
3409, 3755, 3797, 4105, 4113,
4140, 4245

Vaessen P. H. M.
4394

Vainshtein L. A.
3410, 3747

Valentin A.
3626

Valentini H. B.
3756

Valiron P.
3364

Vallbona G.
4864

Vallee O.
3411, 3757, 4106, 4246, 4593,
4672, 4752

Valognes J. C.
3758, 3943, 4417, 4866, 4943

Valuzhis A. D.
3119, 3120

Van Baak D. A.
3412

Van Bergen A. R. D.
3681

Van Calcar R. A.
3920

Van de Weijer P.
4503

Van den Wijngaart
4523

Van der Mullen J. A. M.
4826

Van der Sijde B.
4826

Van Dijk C. A.
3230, 3540, 3579

Van Engelen J. M. L.
4394

Van Hal R. P. M.
4407

Van Hemert M. C.
4407

Van Hulsteyn D. B.
3476

Van Linden van den Heuvell H. B.
4395

Van Regemorter H.
4396, 4397, 4524, 4525, 4753

Van Rensbergen W.
3580

Van Uitert B. K.
3920

Van Veen E. H.
4846

Vandeplanque J.
3093

Vanderhaegen D.
4876

Vanier J.
3413, 3921, 3922

Vasil'eva I. A.
3923

Vasilenko L. S.
3967

Vasilevskii K. P.
3924, 4247

Vasilieva I. A.
4248, 4526

Vdovin Yu. A.
3131, 3599

Veats S.
3690

Vedenin V. D.
4128, 4398, 4539, 4645, 4646,
4944

Vedmich V. G.
3231, 3581

Veguillas J.
4683, 4879

Vegvar P. de
3136

Velichanskii V. L.
3783

Velichko A. G.
3915

Velikic Z. B.
4966

Vella M. C.
3563

Venkatesan T.
3759

Verges J.
3156, 3630, 3631, 4107, 4969

Verhaar B. J.
4647, 5042

Verma R.
4108

Vetter R.
3232, 3582, 3757, 3760

Veza D.
3583, 3584, 3761, 3796, 3925,
4109, 4110, 4754

Veza D.
3233

Vicharelli P. A.
4111

Vickers T. J.
4821

Vienne-Casalta D.
3585, 3926

Viladrosa R.
3174

Vince I.
4399, 4400, 4401, 4847, 4848

Vinogradov A. V.
3619

Viöl W.
4843, 4941

Visticot J. P.
3465, 3559, 3560, 3644, 3751,
3762, 3763, 4402, 4441, 4442

Vitel Y.
4648, 4649, 4650, 4755, 4756

Vitrant G.
3739

Vlasov A. N.
4403

Vogel. N.
5025

Voigt P.
3549

Volk C. H.
3963

Volkova L. M.
3586

Volonté S.
3234, 3256, 3257, 3720

Von Borstel M.
4651

Von Goeler S.
3264, 3618

Voslamber D.
3402, 3587, 3740, 3764, 3765,
3766, 3779, 3927, 4404, 4506,
4527, 4528, 4529, 4841, 4936

Vrakking J. J. A. M.
4425, 4555

Vrhovac S. B.
4966

Vujicic B.
5002

Vujicic B. T.
3803, 4112, 4249, 4405, 4801,
4849

Vujnovic V.
3087, 3409, 3584, 4113

Wackherr P.
3367

Wada A.
4805

Wagner A.
3759

Walder V. S.
3432, 3598, 3603, 3791, 3801

Walker Z. H.
4550

Walkup R.
4250

Walkup R. E.
3588, 3767, 3768, 3928, 4082

Walters P. E.
4530

Walther H.
4367

Wang J. S.
4850, 4907, 5044

Wang J. -S.
4908

Wang S. Y.
3150, 3414

Wang W. J.
4008, 4114

Wang Z.
4855

Ward J. M.
3318

Wareing D. P.
4322

Warrington D. M.
4262

Wasilewski J.
3439

Wasserman K. R.
4857

Waszink J. H.
3235, 3236

Watanabe Y.
3415

Watkin G.
4322

Wawrzynski J.
3953, 3954, 4273, 4531, 4652

Weber E. W.
3416, 3417, 3769, 3770, 3771,
3772, 3773, 4016, 4115

Weber K. H.
3418, 3419, 3929, 3930, 4116

Weber K. -H.
4011

Weber P. G.
3472

Weckström K.
3567

Wehenkel C.
3312, 3313

Wehrse R.
4860

Weinberger E.
3403, 3569, 3749, 4642, 4643

Weirauch T.
4806

Weisheit J. C.
3420, 3787, 4370

Wende B.
3177, 3654, 3989, 4302, 4432

Weniger S.
3378, 3829, 3830, 3994, 4452,
4583

Werner H.
4017

Werner K.
4251

West P. J.
4700, 4939, 5018

Wetzer J. M.
4252

Wexler B. L.
3589

Whitney K. G.
3931

Whittaker E.
3525, 3715

Whittal D. M.
4997

Whitten B. L.
4187, 4204

Whittingham I. B.
5003

Wiegart N. J.
3421, 4117, 4118

Wieman C.
4751

Wiese W. L.
3096, 3099, 3237, 3316, 3932,
4033, 4189, 4196, 4197, 4468,
4596, 4917, 5045

Wilcomb B. E.
3589

Wilczek E.
3774

Wildman D. W.
3590

Wilksch P. A.
4406

Williams P. F.
3457

Williams R. R.
4119

Windholz L.
3591, 4757

Winefordner J. D.
3540, 4923, 5000

Wineland D. J.
3677, 3851

Winfield R. J.
4344, 4345, 4346

Wing W. H.
3643

Winkelmann G.
4120

Wirsig M.
4017, 4181

Wirz P.
3475

Wodkiewicz K.
3775

Xu G.-X.
4643

Woerdman J. P.
3422, 4407, 4635

Xu X. J.
4794, 4905

Wolnikowski J.
3140, 3141, 3341, 3438, 3512,
3933, 4059, 4205, 4273, 4276,
4354, 4423, 4531, 4532, 4652,
4870, 4945, 4961, 4962

Yaakobi B.
3423, 3592

Yablochkov E. Yu.
3241

Woltz L. A.
3683, 3776, 3934, 4121, 4253,
4284, 4468, 4533, 4598, 4619,
4758, 4759, 4902, 4906, 4999,
5026

Yakolev D. G.
4719

Yakovlenko S. I.
3935, 4143, 4537, 4721

Woodworth M. R.
4122

Yakovlev D. G.
3952, 4060, 4819, 4851

Wormhoudt J. C.
4101

Yakovson N. N.
4261

Woschnik T.
4573

Yamaguchi N.
3651, 4007

Wray J. E.
4896

Yamamoto K.
3593, 3594, 3778, 4123

Wright E. L.
4141

Yan X. Z.
4535, 4536

Wright J.
3743

Yanagisawa T.
4005, 4006

Wright J. J.
3790

Yang B.-X.
4353

Wu C. Y. R.
3238, 3239, 3240, 3777

Yang J.
4760

Wurster W. H.
3145

Yang X. D.
4940

Xu E. Y.
4534

Yasevich V. Yu.
4418, 4719, 4819, 4851

Yatsenko L. P.
3127

Yazenzov V. V.
4126

Yeh S.
3424

Yelnik J.-B.
3779

Ying-Jian W.
4254

Yonehara A.
3497, 3856

Yoshida E.
4938

Yoshihara K.
4494

Young J. P.
3199

Yukov E. A.
3410, 3747, 4424, 4666, 4772

Yurkin E. K.
3783

Zagrebin A. L.
4779, 4852, 4853, 4854, 4946,
4947

Zaibi M. A.
4866

Zaidi A. A.
4869

Zakaraya M. G.
4408

Zaprianova R.
3780

Zarovnyaev G. V.
4124

Zarro D. M.
4409

Zatsepa L. F.
3130

Zeegers P. J. Th.
3230

Zeeman P. B.
4530

Zemtsov Yu. K.
4256, 4863

Zhang J.-Y.
4760

Zhang Z.
4855

Zhechev D.
3780

Zhi G.
4653

Zhidkov A. G.
4410, 4537, 4856

Zhiglinskii A. G.
3429

Zhou H.-T.
4760

Zhu X.
4538, 4761

Zhuk V. P.
3595

Zhuvikin G. V.
3425, 3936, 4411

Zhuzhunashvili A. I.
3125

Zibrov A. S.
3783

Zimmermann J. P.
3828

Zimmermann J.-P.
3993

Zimmermann M.
3781

Zimmermann R.
4464

Zirin H.
4409

Zoellner M. J.
4226

Zokai M.
4589, 4654

Zolotarev M. S.
4769

Zon B. A.
4771

Zughul M. B.
3607

Zugravescu P. Gh.
4693

5. ERRATA

<u>Reference No.*</u>	<u>Corrections or Additions to NBS Special Publication 366, Supplement 3 (1978)</u>
2760	In Part 2, add the classification of Na I (Stark, T).
2913	In Part 3, change the reference to the English translation: Sov. Phys.--JETP 46, 209 (1977).
2996	In Part 1, add the classification of 1.6.4. In Part 2, delete Na I and K I (Stark, E).
3058	In Part 1, add the classification of 1.4.3. (E).
3061	In Part 1, add the classification of 1.1.2.2. (T).
3075	In Part 1, add the classification of 1.3.4. (E).

*The numbers refer to paper identification numbers of Part 3 of the third supplement to the original bibliography.

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